HCI 2011 International

14th International Conference on Human - Computer Interaction

jointly with:

Symposium on
Human Interface (Japan) 2011

9th International Conference on
Engineering Psychology and Cognitive Ergonomics

6th International Conference on
Universal Access in Human-Computer Interaction

4th International Conference on
Virtual and Mixed Reality

4th International Conference on
Internationalization, Design and Global Development

4th International Conference on
Online Communities and Social Computing

6th International Conference on
Augmented Cognition

3rd International Conference on
Digital Human Modeling

2nd International Conference on
Human Centered Design

1st International Conference on
Design, User Experience, and Usability

Under the auspices of
12 distinguished international boards of
302 board members from 34 countries

Final Program

9 - 14 July 2011

Hilton Orlando Bonnet Creek

Orlando, Florida, USA

www.hcii2011.org

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HCI 2011
INTERNATIONAL

Founder of the Conference Series and Scientific Advisor
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Purdue University, *USA*
and Tsinghua University, *P.R. China*

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Conference at a Glance

Conference Registration – Secretariat

Conference Registration will take place at the Conference Secretariat, located at **Bonnet Creek Ballroom Foyer North**, during the following hours:

Friday, **8 July**	15:00 – 19:00
Saturday, **9 July**	08:00 – 18:30
Sunday, **10 July**	08:00 – 18:30
Monday, **11 July**	07:30 – 17:00
Tuesday, **12 July**	07:30 – 18:30
Wednesday, **13 July**	07:30 – 18:30
Thursday, **14 July**	07:30 – 18:00

The Conference registration fee includes:

- Participation in all open technical sessions (i.e. Parallel Paper Presentations)
- Entrance to the Exhibition
- Refreshment breaks
- Conference proceedings in DVD
- and one ticket for the Gala Reception

Cancellation policy: Registration fee for any event is non-refundable.

Conference Evaluation

Your opinion and comments are very important for the improvement and future planning of the conference.

We kindly ask you to spend a few minutes to fill-in the on-line anonymous survey through the link:

www.surveymonkey.com/s/HCII2011

or scan the QR-Code on the left

The survey will be available until 20 August 2011.

Program

Saturday 9 July 2011	• Tutorials Day 1 *- page 11*
Sunday 10 July 2011	• Tutorials Day 2 *- page 11*
Monday 11 July 2011	• Tutorials Day 3 *- page 11* • Open Networking Session on the Global Public Inclusive Infrastructure Chair: Gregg C. Vanderheiden, *USA* (08:30 - 17:00 , Room: *Hamilton)* • Opening Plenary Session *- Room: FLORIDIAN BALLROOM - Salon G-L* Chair: Michael J. Smith, *USA* Keynote address: *"Technology-Mediated Social Participation: The Next 25 Years of HCI Challenges"* by: Ben Shneiderman *- page 5* • Gala Reception *- page 92*
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Welcome Note

HCI International 2011

Gavriel Salvendy
Conference Series Founder and
HCII 2011 Scientific Advisor

Dear Colleague,

It is with great honor and pleasure that I welcome you to HCI International 2011, the 14th International Conference on Human-Computer Interaction, held in Orlando, FL, USA, 9-14 July 2011, in cooperation with the:

- Symposium on Human Interface (Japan) 2011
- 9th International Conference on Engineering Psychology and Cognitive Ergonomics
- 6th International Conference on Universal Access in Human-Computer Interaction
- 4th International Conference on Virtual and Mixed Reality
- 4th International Conference on Internationalization, Design and Global Development
- 4th International Conference on Online Communities and Social Computing
- 6th International Conference on Augmented Cognition
- 3rd International Conference on Digital Human Modeling
- 2nd International Conference on Human Centered Design
- 1st International Conference on Design, User Experience, and Usability

Constantine Stephanidis
General Chair HCII 2011

HCI International is the worldwide renowned international forum for the dissemination and exchange of up-to-date scientific information on theoretical, generic and applied areas of Human-Computer Interaction.

HCI International 2011 promises to be an unforgettable cluster of high quality international scientific events, and an ideal occasion to come to contact with the rapidly evolving ICT market in the world. This year, HCI International and the affiliated Conferences explore a wide variety of new hot topics which reflect and contribute to a paradigm shift towards ubiquitous interaction, intelligent environments and interactive technologies supporting virtually any aspect of human life and activities in a global and social perspective.

The 23-volume Conference Proceedings are published by Springer in the Lecture Notes in Computer Science (LNCS), Lecture Notes in Artificial Intelligence (LNAI) and Communications in Computer and Information Science (CCIS) series, and are available on-line through the SpringerLink Digital Library (http://www.springer.com/lncs, http://www.springer.com/series/7899), readily accessible by all subscribing libraries around the world. The Proceedings are also published by Springer in DVD, which is provided in your registration bag.

An impressive number of nearly 2000 individuals from 61 countries are participating in this truly international in scope event, where the work of the world's foremost leaders in the field is presented. We are privileged that Ben Shneiderman has joined us as the keynote speaker at the opening plenary session. Furthermore, during this session, for the second time in the history of the HCI International Conference series, fourteen awards will be conferred. Twelve awards will be given to the best papers in each Affiliated Conference / Thematic Area. The winners will receive a plaque and a certificate. Among these twelve best papers, one paper will be selected as Best HCI International 2011 Conference paper, and will receive a golden award and a certificate. Finally, the Best Poster will also receive a plaque award and a certificate.

I would like to thank each and every one of you for your valuable contribution towards the success of this Conference, and to wish you a professionally rewarding and socially enjoyable stay in Orlando.

Constantine Stephanidis
General Chair

HCI International 2013

The 15th International Conference on Human-Computer Interaction, HCI International 2013, will be held jointly with the affiliated Conferences in the Mirage Hotel, Las Vegas, Nevada, USA, 21 - 26 July 2013.

It will cover a broad spectrum of themes related to Human Computer Interaction, including theoretical issues, methods, tools, processes and case studies in HCI design, as well as novel interaction techniques, interfaces and applications.

The program will feature, among others: pre-conference half-day and full-day tutorials, parallel sessions, poster presentations, an opening session with a keynote address, and an exhibition.

The Proceedings will be published by Springer.

For more information, please visit the Conference website:
www.hcii2013.org

General Chair: Constantine Stephanidis
University of Crete and FORTH-ICS, *Greece*
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Opening Plenary Session

Monday, **11 July 2011** @ **17:30** *FLORIDIAN BALLROOM - Salon G-L*

Technology-Mediated Social Participation: The Next 25 Years of HCI Challenges

Professor Ben Shneiderman

University of Maryland
Department of Computer Science
A. V. Williams Building
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Abstract

The dramatic success of social media such as Facebook, Twitter, YouTube, blogs, and traditional discussion groups empowers individuals to become active in local and global communities. Some enthusiasts believe that with modest redesign, these technologies can be harnessed to support national priorities such as healthcare/wellness, disaster response, community safety, energy sustainability, etc.

However, accomplishing these ambitious goals will require long-term research to develop deep science foundations and extreme technology strategies. The enduring questions of how to motivate participation, increase social trust, and promote collaboration remain grand challenges even as the technology rapidly evolves. This talk invites researchers across multiple disciplines to participate in inspirational prototypes, innovative evaluations, and robust technologies.

Analyzing Social Media Networks with NodeXL Insights from a Connected World

By Derek Hansen, Ben Shneiderman, Marc Smith
Paperback, 304 Pages, Published: AUG-2010
ISBN 13: 978-0-12-382229-1
Imprint: MORGAN KAUFMANN

Scan the image on the right with the camera from your smart phone to view more details

Biographical Sketch

Ben Shneiderman is a Professor in the Department of Computer Science, Founding Director (1983-2000) of the Human-Computer Interaction Laboratory, and Member of the Institute for Advanced Computer Studies at the University of Maryland at College Park. He has taught previously at the State University of New York and at Indiana University. He was made a Fellow of the ACM in 1997, elected a Fellow of the American Association for the Advancement of Science in 2001, and received the ACM CHI (Computer Human Interaction) Lifetime Achievement Award in 2001.

He was elected to the National Academy of Engineering in 2010. He was the Co-Chair of the ACM Policy 98 Conference, and is the Founding Chair of the ACM Conference on Universal Usability, November 16-17, 2000. Ben Shneiderman's interest in creativity support tools led to organizing the June 2005 NSF workshop and to chairing the June 2007 Conference on Creativity & Cognition. He is a Member of the Board of Scientific Counselors Meeting, National Library of Medicine Lister Hill Center, the National Academies Committee on Technical and Privacy Dimensions of Information for Terrorism Prevention and Other National Goals, and the President's Council of Advisors on Science and Technology, Networking and Information Technology Technical Advisory Group (TAG). He is on the State of the USA Product Advisory Group and a member of the Web Science Research Initiative Advisory Committee.

His major research focus has been information visualization, beginning with his dynamic queries and starfield display. In 1991, he developed the treemap concept, which continues to inspire research and commercial implementations. Later information visualization work includes LifeLines for exploring a patient history, and its successor, PatternFinder, which enables search across electronic medical records. Searching for patterns in numerical time series data was enabled by TimeSearcher, which was applied for stock market, auction, genomic, weather, and other data. The Hierarchical Clustering Explorer supports discovery of features in multi-dimensional data, especially for gene expression data, using the powerful rank-by-feature framework. Current projects focus on network visualization: Network Visualization by Semantic Substrates, SocialAction, and NodeXL. These tools are being applied for citation analysis and social network analysis.

Professor Shneiderman has published many books, including:

- 1980. Software Psychology: Human Factors in Computer and Information Systems; Little, Brown and Co.
- 1987. Designing the User Interface: Strategies for Effective Human-Computer Interaction, 1st edition. Addison-Wesley.
- 1999. Readings in Information Visualization: Using Vision to Think. With Stuart K. Card and Jock D. Mackinlay. Morgan Kaufmann.
- 2002. Leonardo's Laptop: Human Needs and the New Computing Technologies; MIT Press.
- 2010. Designing the User Interface: Strategies for Effective Human-Computer Interaction, 5th edition. With C. Plaisant. Addison-Wesley.
- 2011. Analyzing Social Media Networks with NodeXL: Insights from a Connected World. With D. Hansen and M. Smith. Morgan Kaufmann.

In addition, he has published more than 200 technical papers and book chapters. He has been on the Editorial Advisory Boards of nine journals including the ACM Transactions on Computer- Human Interaction and the ACM Interactions. He edited the Ablex Publishing Co. book series on "Human-Computer Interaction." He has consulted and lectured for many organizations including Apple, AT&T, Citicorp, GE, Honeywell, IBM, Intel, Library of Congress, Microsoft, NASA, NCR, and university research groups.

International Program Boards

Ergonomics and Health Aspects of Work with Computers

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Arne Aarås, *Norway*
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Wolfgang Friesdorf, *Germany*
Martin Helander, *Singapore*
Ed Israelski, *United States*
Ben-Tzion Karsh, *United States*
Waldemar Karwowski, *United States*
Peter Kern, *Germany*
Danuta Koradecka, *Poland*
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Holger Luczak, *Germany*
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Matthias Rötting, *Germany*
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Naomi Swanson, *United States*
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Human Interface and the Management of Information

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Universal Access in Human-Computer Interaction

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Harald Weber, *Germany*
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Engineering Psychology and Cognitive Ergonomics

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Online Communities and Social Computing

Program Chairs:
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Augmented Cognition

Program Chairs:
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Virtual and Mixed Reality

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Tianzi Jiang, *P.R. China*
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Tim Marler, *United States*
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Srinivas Peeta, *United States*
Sudhakar Rajulu, *United States*
Matthias Rötting, *Germany*
Matthew Reed, *United States*
Johan Stahre, *Sweden*
Mao-Jiun Wang, *Taiwan*
Xuguang Wang, *France*
Jingzhou (James) Yang, *United States*
Gulcin Yucel, *Turkey*
Tingshao Zhu, *P.R. China*

Human Centered Design

Program Chair:
Masaaki Kurosu,
Japan

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Simone Barbosa, *Brazil*
Tomas Berns, *Sweden*
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Torkil Clemmensen, *Denmark*
Susan M. Dray, *United States*
Vanessa Evers, *Netherlands*
Xiaolan Fu, *P.R. China*
Yasuhiro Horibe, *Japan*
Jason Huang, *P.R. China*
Minna Isomursu, *Finland*
Timo Jokela, *Finland*
Mitsuhiko Karashima, *Japan*
Tadashi Kobayashi, *Japan*
Seongil Lee, *Korea*
Kee Yong Lim, *Singapore*
Zhengjie Liu, *P.R. China*
Loïc Martínez-Normand, *Spain*
Monique Noirhomme-Fraiture, *Belgium*
Philippe Palanque, *France*
Annelise Mark Pejtersen, *Denmark*
Kerstin Röse, *Germany*
Dominique L. Scapin, *France*
Haruhiko Urokohara, *Japan*
Gerrit C. van der Veer, *Netherlands*
Janet Wesson, *South Africa*
Toshiki Yamaoka, *Japan*
Kazuhiko Yamazaki, *Japan*
Silvia Zimmermann, *Switzerland*

Design, User Experience, and Usability

Program Chair:
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Konrad Baumann, *Austria*
Arne Berger, *Germany*
Randolph Bias, *United States*
Jamie Blustein, *Canada*
Ana Boa-Ventura, *United States*
Lorenzo Cantoni, *Switzerland*
Sameer Chavan, *Korea*
Wei Ding, *United States*
Maximilian Eibl, *Germany*
Zelda Harrison, *United States*
Rüdiger Heimgärtner, *Germany*
Brigitte Herrmann, *Germany*
Sabine Kabel-Eckes, *United States*
Kaleem Khan, *Canada*
Jonathan Kies, *United States*
Jon Kolko, *United States*
Helga Letowt-Vorbek, *South Africa*
James Lin, *United States*
Frazer McKimm, *Ireland*
Michael Renner, *Switzerland*
Christine Ronnewinkel, *Germany*
Elizabeth Rosenzweig, *United States*
Paul Sherman, *United States*
Ben Shneiderman, *United States*
Christian Sturm, *Germany*
Brian Sullivan, *United States*
Jaakko Villa, *Finland*
Michele Visciola, *Italy*
Susan Weinschenk, *United States*

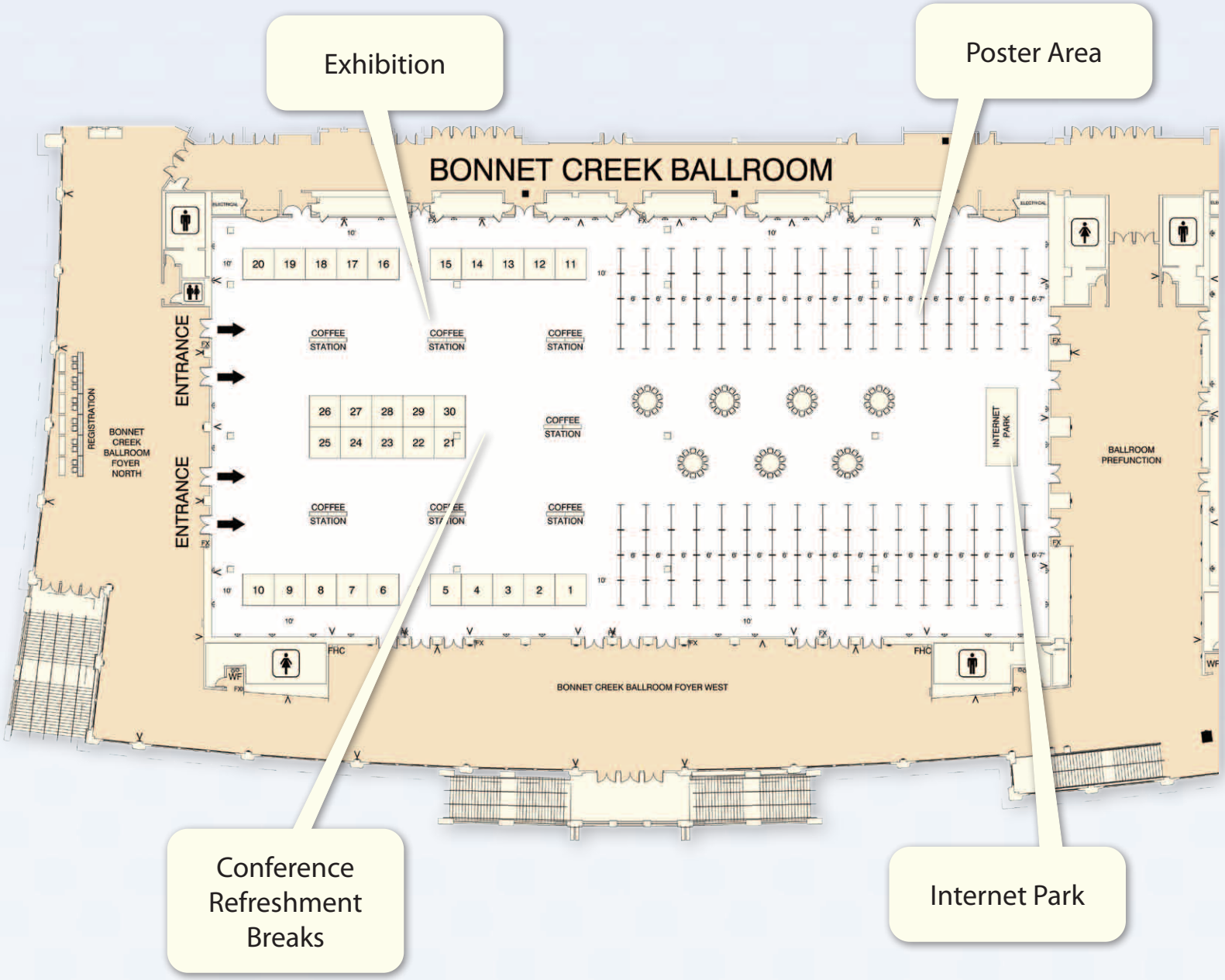
Conference Exhibition

The Exhibition of HCI International 2011 is hosted in the **Bonnet Creek Ballroom** of the Hilton Orlando Bonnet Creek.

Entrance to the Exhibition is free of charge for all Conference participants.

Timetable		
Display set–up	Monday, 11 July	12:00 - 17:00
Opening Hours	Tuesday, 12 July	09:00 - 18:30
	Wednesday, 13 July	09:00 - 18:30
	Thursday, 14 July	09:00 - 18:00
Display dismantle	Thursday, 14 July	18:00 - 21:00

HILTON ORLANDO BONNET CREEK: Bonnet Creek Ballroom



LIST OF EXHIBITORS

AHFE International 2012
Booth 7
www.ahfe2012.org

Ashgate Publishing
Booth 4
www.ashgatepublishing.com

Brain Products GmbH
Booth 2
www.brainproducts.com

Cortech Solutions, Inc.
Booths 24-25
www.cortechsolutions.com

g.tec medical engineering
www.gtec.at

Ergoneers GmbH
Booth 3
www.ergoneers.com

EyeTech Digital Systems, Inc.
Booth 13
www.eyetechds.com

Eyetellect
Booth 17
www.eyetellect.com

EyeTracking, Inc
Booth 5
www.eyetracking.com

FORTH-ICS
Booth 12
www.ics.forth.gr

HCI International 2013
Booth 11
www.hcii2013.org

National Chiao-Tung University
Booth 16
www.nctu.edu.tw/english

Noldus
Booths 26-27
www.noldus.com

Seeing Machines
Booth 1
www.seeingmachines.com

Smart Eye AB
Booth 15
www.smarteye.se

Springer
Booths 19-20
www.springer.com

Taylor and Francis Group
Booths 8-9-10
www.taylorandfrancis.com

UNIST
Booth 25
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20	LNAI	6780	Foundations of Augmented Cognition. Directing the Future of Adaptive Systems	Schmorrow, D.D. ; Fidopiastis, C.M. (Eds.)	978-3-642-21851-4	€ 79,00	€ 52,69
21	LNAI	6781	Engineering Psychology and Cognitive Ergonomics	Harris, D. (Ed.)	978-3-642-21740-1	€ 79,00	€ 52,69
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Tutorials Synopsis

Saturday, 9 July 2011

	Tutorials	Room	Time
T 01	**Enhancing Reliability and Efficiency of Computer Based Tasks** Gregory Bedny, Waldemar Karwowski, Inna Bedny	*Withdrawn by the authors*	
T 02	**Cognitive Crash Dummies: Predicting Performance from Early Prototypes** Bonnie E. John	Orange	09:00 - 12.30
T 03	**Overview of Human Information Processing for Human-Computer Interaction** Kim-Phuong Vu, Robert Proctor	Palm Beach	09:00 - 12.30
T 04	**Cognitive Neuroscience for the HCI Practitioner** Chris Forsythe	Nassau	14:00 - 17.30
T 05	**Cost-effective User-Centered Design based on 9241-210** Nigel Bevan	Orange	14:00 - 17.30
T 06	**Extreme Cognition in Human Computer Interaction – Foundations & Applications** G. Susanne Bahr	Palm Beach	14:00 - 17.30

Sunday, 10 July 2011

	Tutorials	Room	Time
T 07	**Designing Interaction for Ambient Intelligence Environments** Norbert Streitz	Nassau	09:00-17:30
T 08	**Cross-Cultural HCI / User-Experience Development** Aaron Marcus	Orange	09:00-17:30
T 09	**Multimodal Information - Collection and Analysis of Interactive Data** Kristiina Jokinen	Hamilton	09:00-17:30
T 10	**Gaze Metrics in Adaptive Systems** Kelly Hale	Taylor	09:00 - 12.30
T 11	**Assessing Usability Capability using ISO Standards** Nigel Bevan	Union	09:00 - 12.30
T 12	**Practical Statistical Methods for User Research** James Lewis , Jeff Sauro	Palm Beach	09:00 - 12.30
T 13	**Designing with the Mind in Mind: The Psychological Basis for UI Design Rules** Jeff Johnson	Palm Beach	14:00 - 17.30
T 14	**Applying Cognitive Compatibility Principles to the Design of Computer Interfaces** Robert Proctor, Kim-Phuong Vu	Taylor	14:00 - 17.30
T 15	**Designing for Persuasion and Engagement** Susan Weinschenk	Union	14:00 - 17.30

Monday, 11 July 2011

	Tutorials	Room	Time
T 16	**Mobile HCI / User-Experience Development** Aaron Marcus	Orange	08:30-17:00
T 17	**Introduction to Social Network Analysis** Panayiotis Zaphiris, Chee Siang Ang	Nassau	08:30-17:00
T 18	**Brain-Computer Interface** Günter Edlinger, Christoph Guger	Palm Beach	08:30-12:00
T 19	**Practical Speech User Interface Design for Interactive Voice Response Applications** James Lewis	Taylor	08:30-12:00
T 20	**How to Select the Most Appropriate Methods for User Centered Design** Nigel Bevan	Union	08:30-12:00
T 21	**Raising Cultural Awareness in HCI Design** Astrid Beck, Kerstin Röse, Rüdiger Heimgärtner	Palm Beach	13:30-17:00
T 22	**Interactive Business Process Development – The Stakeholder Approach** Albert Fleischmann, Christian Stary	Taylor	13:30-17:00
T 23	**User-centered Design and Universal Access: How they can Work Together in Practice** Simeon Keates	Union	13:30-17:00

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Parallel Sessions Overview

Tuesday, **12 July 2011** Morning **08:00 - 12:30**

Thematic Area	08:00 – 10:00 *(page 18 - 22)*		10:30 – 12:30 *(page 23 - 27)*	
	session code	Session Title	session code	Session Title
EHAWC				
HIMI	S001	New Prospective of the Research for Tactile & Haptic Interactions	S020	Human Factors Considerations in NextGen
	S002	Ontologies, Semantic Web and Interaction	S021	Personal, Family and Social Media
HCI	S003	Children-Computer Interaction	S022	New Technology and User Experience for Ubiquitous and Mobile Learning
	S004	Rich Application Technologies and Rich User Experiences	S023	Patterns and Models for Interactive System Development
	S005	Advanced System Architecture in the Social Context (I)	S024	Developing Service Cognition
	S006	HCI in MIS	S025	Safety of Medication Usage
EPCE	S007	Human Factors and Aviation Safety	S026	Industrial and Military Applications
UAHCI	S008	Sociocultural Aspects in Monolingual and Multilingual Human-Computer Interaction	S027	The Future of Universal Access (I)
	S009	Inclusive Interaction Interfaces	S028	SMART Interfaces for Consumer Health Applications (I)
	S010	Conversational Robots in HCI	S029	Looking for an Accessible Life; while in Desktop, Mobile and Web
	S011	Stakeholder -Driven Process Management	S030	Human, Computer and Environment
VMR	S012	Developing Virtual Environments (I)	S031	Digital Puppetry: Bringing Virtual Characters to Life
			S032	Interaction and Navigation in Virtual Environments
IDGD	S013	Cultural Design Issues	S033	Designing "Friendship" into Modern Products (I)
	S014	Mobile & Internet @ User Experience	S034	User Experience Design and Research in Multinational Companies
OCSC				
AC	S015	Assessment of Team NeuroDynamics during Training	S035	Brain Computer Interfaces
DHM	S016	Motion Modelling		
HCD	S017	Human Systems Integration Design: from Biology to Technology and Organization		
DUXU	S018	UX/UI Design	S036	Persuasion Design
	S019	Usability Studies: Rigor, or Rigor Mortis?	S037	Focus on Visual Innovation

EHAWC Ergonomics and Health Aspects of Work with Computers • **HIMI** Human Interface and the Management of Information
HCI Human-Computer Interaction • **EPCE** Engineering Psychology and Cognitive Ergonomics
UAHCI Universal Access in Human-Computer Interaction

Sessions Day 1

Tuesday, **12 July 2011** Afternoon **13:30 - 18:00**

Thematic Area	13:30 – 15:30 *(page 27 - 31)*		16:00 – 18:00 *(page 32 - 36)*	
	session code	Session Title	session code	Session Title
EHAWC			S056	Light and Display
HIMI	S038	Supporting Communication and Collaboration	S057	Novel Devices and Techniques for Interacting with Information
			S058	Education and Training
HCI	S039	Towards Integrating Haptic Experiences: Does Touch Really Matter?	S060	Facial Gesture Recognition and Gaze Tracking
	S040	Signal and Image Processing for HCI (I)	S059	Brain Interfaces and Electromyography
	S041	Spatial Interaction Design (I)	S061	Advanced HCI Applications
	S042	Gesture-based Interaction (I)		
EPCE	S043	Cognitive Issues in Interaction (I)	S062	Cognitive Issues in Interaction (II)
UAHCI	S044	Social Inclusion	S063	Universal Access in Practice
	S045	Intelligent Interfaces and Functionality, Adaptation, and Personalization	S064	Design Access in Ergonomics and Interaction
	S046	Multimodal and Multicultural Communicative Agent (MMMCA)	S065	Distributed Intelligence and the Web
	S047	Universal Access Methods and Tools		
VMR	S048	Human Behaviour in Virtual and Augmented Environments	S066	3D Technology for HMD and LCD as a Human Interface
IDGD	S049	Designing "Friendship" into Modern Products (II)	S067	Human Factors and Control of Complex Systems
OCSC	S050	Electronic Business	S068	Higher Education and Social Computing Applications
AC	S051	Computational Neuroscience & Predicting Cognitive & Affective States	S069	AugCog Overview
DHM	S052	Posture and Comfort	S070	Applications of Digital Human Modelling
HCD	S053	Novel Design Approaches	S071	Objective Aspects and Subjective Aspects in User Experience
DUXU	S054	User Experience in Online Communication	S072	Promoting Design Quality, Design Culture and Innovative Thinking within the Enterprise
	S055	Globalization / Localization of DUXU	S073	Sustainability: Future Roles, Responsibilities, and Opportunities for the HCI Profession

VMR Virtual Reality, Usability and Internationalization • **IDGD** Internationalization, Design and Global Development
OCSC Online Communities and Social Computing • **AC** Augmented Cognition • **DHM** Digital Human Modeling
HCD Human Centered Design • **DUXU** Design, User Experience, and Usability

Parallel Sessions Overview

Wednesday, **13 July 2011** Morning **08:00 - 12:30**

Thematic Area	08:00 – 10:00 *(page 37 - 41)*		10:30 – 12:30 *(page 41 - 45)*	
	session code	Session Title	session code	Session Title
EHAWC			S092	Biomedical and Health Visualization HCI Design
HIMI	S074	Communication Enhancement	S093	Practical Implications of Applied Visual Analytics
	S075	Designing Web Sites and Interfaces to Optimize HCI	S094	Industrial, Aeronautical and Military Applications
HCI	S076	Advanced System Architecture in the Social Context (II)	S095	Emotions in HCI
	S077	Tabletop and Surface Interaction	S096	Novel Interaction Methods and Techniques
	S078	Text, Human Languages and Translation	S097	Learning Environments
	S079	Health and Well-being Applications		
EPCE	S080	Detecting Terrorist Activities	S098	Cognitive Issues in Interaction (III)
UAHCI	S081	Information Technology Strategies in Health Care	S099	Smart Products and Services
	S082	Active Ageing with ICT	S100	Designing Interactions for the Ageing Society
	S083	SMART Interfaces for Consumer Health Applications (II)	S101	Universal Accessibility in Documents
	S084	The Future of Universal Access (II)		
VMR	S085	Toward Ultra-Reality Technology for VR/MR	S102	Developing Virtual Environments (II)
	S086	Health and Rehabilitation Applications of VR and AR		
IDGD	S087	Social Networks: Cultural Design and Analysis Methods	S103	HCI for Economic Development: from HCI4D to the PRC
OCSC			S104	Interacting with Wikis and Blogs
AC	S088	Cultural Neuroscience and Individual Differences: Implications for Augmented Cognition	S105	AugCog in Training and Education
DHM	S089	Upper Extremity Safety and Health	S106	Cognitive Modelling and AR/VR based Support Technologies for Future Home and Work Environments
HCD			S107	Towards a Human-Centred Web
DUXU	S090	Psychological and Physiological Evaluation for User on Interface Design	S108	ISO Usability Standards and Enterprise Software
	S091	Novel Mobile Interactions, Services and Environments	S109	User Experience and the Web

EHAWC Ergonomics and Health Aspects of Work with Computers • **HIMI** Human Interface and the Management of Information
HCI Human-Computer Interaction • **EPCE** Engineering Psychology and Cognitive Ergonomics
UAHCI Universal Access in Human-Computer Interaction

Sessions Day 2

Wednesday, **13 July 2011** Afternoon **13:30 - 18:00**

Thematic Area	13:30 – 15:30 *(page 46 - 50)*		16:00 – 18:00 *(page 50 - 54)*	
	session code	Session Title	session code	Session Title
EHAWC	S110	New Ways of Working in Offices		
HIMI	S111	Kansei Value Creation	S128	Security and Forensic Aspects of Human-Computer Interaction
	S112	Designing the Service Engineering in the Present Day		
	S113	Visualisation Methods, Techniques and Applications		
HCI	S114	Signal and image processing for HCI (II)	S129	Innovative Interaction Strategies
	S115	Cognitive and Psychological Issues in HCI (I)	S130	Gesture-based Interaction (II)
	S116	Novel Approaches to Usability	S131	User Interface Design Methods and Tools
	S117	Multimodal Interaction	S132	Capturing and Consolidating Design Knowledge
EPCE	S118	Situation Awareness and Transportation Safety	S133	Aeronautics and Space
UAHCI	S119	BCI: Application Interfaces and Environments	S134	Designing Interfaces for In-vehicle Driver Support Systems - Issues under Consideration
	S120	Affective Technology through Affective Management	S135	Aging and HCI
			S136	New Approaches to the Study of Web Accessibility
			S137	Advances in Accessibility
VMR	S121	VR in Products Design and Assembly	S138	"What's the Name of the Game? Does It Mean Anything To You?" - Maximizing the Learning Value of Serious Games and Virtual Worlds
IDGD	S122	Social Innovation and Service Design Education and Practices in China	S139	Trends of HCI in China
OCSC	S123	Information in On-line Communities		
AC	S124	Technology Integration	S140	Public, Private and Industry Researchers: their Combined Role is a Key to Success in Advancing Augmented Cognition
DHM			S141	Shape Analysis and its Applications
HCD	S125	Usability and Design	S142	Holistic Prosthetics Technology for People with Multiple Disability
DUXU	S126	Communication Issues and the User Experience: Branding, Content Design and Semiotics	S143	Usability in the Life Science Industry
			S144	Revisiting User Support
	S127	Mobile Services and Devices	S145	Industrial User Experience

VMR Virtual Reality, Usability and Internationalization • **IDGD** Internationalization, Design and Global Development
OCSC Online Communities and Social Computing • **AC** Augmented Cognition • **DHM** Digital Human Modeling
HCD Human Centered Design • **DUXU** Design, User Experience, and Usability

Parallel Sessions Overview

Thursday, **14 July 2011** Morning **08:00 - 12:30**

Thematic Area	08:00 – 10:00 *(page 55 - 58)*		10:30 – 12:30 *(page 59 - 63)*	
	session code	Session Title	session code	Session Title
EHAWC	S146	Technology Mediated Collaboration	S162	Quality of Working Life
HIMI	S147	Relationality DesignRelationality Design	S163	Embodied Interaction and Communication
	S148	Access to Information	S164	Toward Creating Human-Centric Services in Service Engineering Design
HCI	S149	Mobile Interaction	S165	Modeling Interaction
	S150	HCI in the Physical, Architectural and Cultural Environment	S166	Human Performance Modeling Using Interactive Simulations
	S151	Interacting with the World Wide Web	S167	Cognitive and Psychological Issues in HCI (II)
	S152	Spatial Interaction Design (II)		
EPCE	S153	Driver Measurement and Sensing	S168	Basic Issues of Interface Design
UAHCI	S154	Camera-based Interfaces for People with Disabilities	S169	eInclusion - Policies, Programs, Best Practices
	S155	Mobile User Interaction	S170	Ergonomics in Architecture
	S156	Behavior Computer Animation, Communicability and Education for All	S171	The Future of Universal Access (III)
	S157	Functional Modeling and Rehabilitation (I)		
VMR	S158	Ubiquitous Virtual Reality	S172	Digital Museum
IDGD			S173	Research on User Experience and Service System Design in Mobile Network
OCSC			S174	Design of Social Applications
AC	S159	Operational Neuroscience	S175	Augmenting Cognition by Social Information and Collective Intelligence
DHM			S176	Driver Modeling
HCD	S160	The Home and the Mobile Context	S177	HCD and Innovation
DUXU	S161	Methods and Tools for Assessing and Enhancing the User Experience	S178	User Experience in Complex Systems

EHAWC Ergonomics and Health Aspects of Work with Computers • **HIMI** Human Interface and the Management of Information
HCI Human-Computer Interaction • **EPCE** Engineering Psychology and Cognitive Ergonomics
UAHCI Universal Access in Human-Computer Interaction

Sessions Day 3

Thursday, **14 July 2011** Afternoon **13:30 - 18:00**

Thematic Area	13:30 – 15:30 *(page 63 - 67)*		16:00 – 18:00 *(page 68 - 72)*	
	session code	Session Title	session code	Session Title
EHAWC				
HIMI	S179	Personalisation, Intelligent HCI Convergence	S196	Psychological and Physiological Model Applied to Human Interface Design
	S180	Persuasion and Credibility		
HCI	S181	Adaptive User Interfaces	S197	Executable Models to Bridge Design Time and Runtime of Interactive Systems
	S182	HCI and Auto Industry	S198	Innovative User Interfaces for Navigation and Guidance
	S183	Interaction Design	S199	Human Interaction in Mobility
			S200	Human System Interaction
EPCE	S184	Cognitive Design for Human-Automation Interaction in Vehicle Guidance		
UAHCI	S185	Functional Modeling and Rehabilitation (II)	S201	Personal Health Systems (PHS) Integration With Ambient Assisted Living (AAL) : Is Ambient Assisted Health (AAH) a Reality?
	S186	Advanced Interaction Supporting Universal Access in Educational Systems	S202	New Trends in Non-visual Interaction
	S187	Implications of Cloud Computing for People with Cognitive Disabilities	S203	Design Access in Human Communication and Interaction
VMR	S188	Dive into the Movie - New Technique to Make Audience Attainable into the Contents	S204	Augmented Reality Industrial Applications
IDGD	S189	Living Lab for Smart Shopping: User Experience in Convenience Store	S205	Culture and Product Design
OCSC	S190	Social Spaces for Virtual Gameplay and Learning – New Inquiries	S206	Next Generation Social Media: Mass Collaboration as a Business Model
AC	S191	Augmented Cognition Applications	S207	Applications of Functional Near Infrared Imaging Measurement
DHM	S192	Product Design & Human Interface	S208	Human Performance Modeling in Aviation
HCD	S193	Design and Service	S209	User-centered Smarter Products Design and Modeling
DUXU	S194	User Experience Design Methods	S210	User Experience in the Physical and Human Environment
	S195	Designing Products and Devices	S211	User Experience in Business
			S212	Usability Studies

VMR Virtual Reality, Usability and Internationalization • **IDGD** Internationalization, Design and Global Development
OCSC Online Communities and Social Computing • **AC** Augmented Cognition • **DHM** Digital Human Modeling
HCD Human Centered Design • **DUXU** Design, User Experience, and Usability

Parallel Sessions

HIMI

Human Interface and the Management of Information

S001

New Prospective of the Research for Tactile & Haptic Interactions

Room: Park

Chair(s): Sakae Yamamoto, *Tokyo University of Science, Japan*; Miwa Nakanishi, *Keio University, Japan*.

Development of Tactile and Haptic Systems for U.S. Infantry Navigation and Communication
Linda Elliott, *US Army Research Laboratory, United States*; Elmar Schmeisser, *US Army Research Office, United States*; Elizabeth Redden, *US Army Research Laboratory, United States*.

Characteristics of Information Transmission Rates Using Noncontact Tactile Display
Kentaro Kotani, Masayoshi Hayashi, Nobuki Kido, Takafumi Asao, *Kansai University, Japan*.

Effects of Joint Acceleration on Rod's Length Perception by Dynamic Touch
Takafumi Asao, Yuta Kumazaki, Kentaro Kotani, *Kansai University, Japan*.

Applicability of Touch Sense Controllers Using Warm and Cold Sensations
Miwa Nakanishi, *Keio University, Japan*; Sakae Yamamoto, *Tokyo University of Science, Japan*.

Characteristics of Comfortable Sheet Switches on Control Panels of Electrical Appliances: Comparison using Older and Younger Users
Yasuhiro Tanaka, *Keio University, Japan*; Yuka Yamazaki, *Mitsubishi Electric Corporation, Japan*; Masahiko Sakata, *Mitsubishi Electric Group, Central Melco Corporation, Japan*; Miwa Nakanishi, *Keio University, Japan*.

Information Processing for Constructing Tactile Perception of Motion: a MEG Study
Ayumi Nasu, Kentaro Kotani, Takafumi Asao, *Kansai University, Japan*; Seiji Nakagawa, *National Institute of Advanced Industrial Science & Technology (AIST), Japan*.

Study on Haptic Interaction with Digital Map on Mobile Device
Daiji Kobayashi, *Chitose Institute of Science and Technology, Japan*; Yoshitaka Asami, Sakae Yamamoto, *Tokyo University of Science, Japan*.

S002

Ontologies, Semantic Web and Interaction

Room: Lexington

Chair(s): To be announced

A Methodology to Develop a Clinical Ontology for Healthcare Business
Mario Macedo, *IPT, Portugal*; Pedro Isaias, *Universidade Aberta, Portugal*.

Interacting with Semantics: A User-Centered Visualization Adaptation based on Semantics Data
Kawa Nazemi, Matthias Breyer, Jeanette Forster, Dirk Burkhardt, Arjan Kuijper, *Fraunhofer, Germany*.

My Personal User Interface: A Semantic User-Centric Approach to Manage and Share User Information
Till Plumbaum, *Technische Universitat Berlin, Germany*; Katja Schulz, Martin Kurze, *Deutsche Telekom Laboratories, Germany*; Sahin Albayrak, *Technische Universitat Berlin, Germany*.

Dynamic Interface Reconfiguration based on Different Ontological Relations
Elisa Chiabrando, Roberto Furnari, Pierluigi Grillo, Silvia Likavec, Ilaria Lombardi, *Universita di Torino, Italy*.

A User-Centric Metadata Creation Tool for Preserving the Nation's Ecological Data
Fatma Nasoz, *University of Nevada, Las Vegas, United States*; Renee Bryce, *Utah State University, United States*; Craig Palmer, *University of Nevada, Las Vegas, United States*; David Rugg, *U.S. Forest Service, United States*.

Technology-Based Decision-Making Support System
Hanmin Jung, Mikyoung Lee, Pyung Kim, Won-Kyung Sung, *Korea Institute of Science and Technology Information (KISTI), Korea*.

HCI

Human-Computer Interaction

S003

Children-Computer Interaction

Room: Lake

Chair(s): Jamshid Beheshti, *McGill University, Canada*.

How Children Can Design the Future
Mona Leigh Guha, Allison Druin, *University of Maryland, United States*; Jerry Alan Fails, *Montclair State University, United States*.

A Comparison of Children's and Adults' Retrieval Performances and Affective Reactions when using a Conventional Interface and an Information Visualization Interface
Andrew Large, Jamshid Beheshti, *McGill University, Canada*.

Following the Signs: Children's Use of Visual Cues to Facilitate Website Evaluation
Valerie Nesset, *University at Buffalo (SUNY), United States*.

Evaluating Leading Web Search Engines on Children's Queries
Dania Bilal, Rebekah Ellis, *University of Tennessee, United States*.

An Interface for Opportunistic Discovery of Information for Young People
Jamshid Beheshti, Andrew Large, *McGill University, Canada*.

The Interaction of Children's Concepts about Agents and their Ability to use an Agent-Based Tutoring System.
Alicia Hymel, Daniel Levin, Jonathan Barrett, Megan Saylor, Gautam Biswas, *Vanderbilt University, United States*.

Influence of Gender and Age on the Attitudes of Children Towards Humanoid Robots
Fang-Wu Tung, *National Taiwan University of Science and Technology, Taiwan*.

S004

Rich Application Technologies and Rich User Experiences

Room: Jackson

Chair(s): Tobias Komischke, *Infragistics, Inc., United States*; Xianjun Sam Zheng, *Siemens Corporate Research, United States*.

The Impact of Rich Application Frameworks on User Experience Design
Tobias Komischke, *Infragistics, Inc., United States*.

Streamlining User Experience Design and Development: Roles, Tasks and Workflow of Applying Rich Application Technologies
Xianjun Sam Zheng, Mo Wang, Gilberto Matos, Shaopeng Zhang, *Siemens Corporate Research, United States*.

Trends, Challenges and Promises of Rich Experience on Mobile Devices
Yihsiu Chen, *Verizon Wireless, United States*.

Enhanced User Experience in Managing Personal Finances
Cindy Lu, *iNautix USA, United States*.

Design and Rich Application Frameworks
Kevin Richardson, *Electronic Ink, United States*.

Designing Interaction Concepts, Managing Customer Expectation and Mastering Agile Development in Rich Application Product Development
Marcela Esteves, Vladimir Andrade, *Siemens Corporate Research, United States*.

S005

Advanced System Architecture in the Social Context (I)

Room: **Liberty**

Chair(s): Yoshio Nakatani, *Ritsumeikan University, Japan*; Shogo Nishida, *Osaka University, Japan*.

Activity Recognition for Risk Management with Installed Sensor in Smart and Cell Phone
Nobuchika Sakata, Shogo Nishida, Daisuke Honda, *Osaka University, Japan*.

Method for Cultivating the "Inquiry-mindset" Using the Information Access-based Belief Bias Parameter
Kyoko Ito, Yuki Ito, Shogo Nishida, *Osaka University, Japan*.

Development of Information Filtering Systems for Disaster Prevention
Yoshinori Hijikata, Tsutomu Yamanaka, Yuya Tanaka, Shogo Nishida, *Osaka University, Japan*.

Proposal of BCM Evaluation Method Based on Disaster Scenario Simulation
Ryuhei Kaneko, Yoshio Nakatani, *Ritsumeikan University, Japan*.

Beginner Driver Support System for Merging into Left Main Lane
Yuki Nakamura, Yoshio Nakatani, *Ritsumeikan University, Japan*.

Proposal of Collaborative Learning Support Method in Risk Communications
Hiroshi Yajima, Naohisa Tanabe, *Tokyo Denki University, Japan*.

Control Error Analysis of Computerized Operational Enviornment in Nuclear Power Plants
Seung Jun Lee, Jaewhan Kim, Seung-Cheol Jang, *Korea Atomic Energy Research Institute, Korea*.

S006

HCI in MIS

Room: **Dixie**

Chair(s): Scott McCoy, *College of William and Mary, United States*.

Visual Hierarchy and Viewing Behavior: An Eye Tracking Study
Soussan Djamasbi, *Worcester Polytechnic Institute, United States*; Marisa Siegel, Thomas Tullis, *Fidelity Investments, United States*.

Investigating Online Advertising in Chile
Scott McCoy, *College of William and Mary, United States*; Cristobal Fernandez Robin, Jose Luis Cortes, *Universidad Tecnica Federico Santa Maria, Chile*.

Why Virtual Job Recruitment Is Not Well Accepted by Generation Y?—A Case Study on Second Life
Eleanor Loiacono, Soussan Djamasbi, Bengisu Tulu, Oleg Pavlov, *Worcester Polytechnic Institute, United States*.

Are MIS Students Learning What They Need to Land a Job?
Andrea Everard, *University of Delaware, United States*; Brian Jones, *Tennessee Technological University, United States*; Scott McCoy, *College of William and Mary, United States*.

Toward An Understanding of a Computerized Monitoring System Failure: An Interpretive Approach
Nathan Johnson, Yibai Li, Fengchun Tang, Saonee Sarker, *Washington State University, United States*.

An Enriched Understanding of Why the Environment and Individual Characteristics are Important in Understanding Technology Utilization in Healthcare: An Evolutionary Psychology Perspective
Chon Abraham, *College of William and Mary, United States*; Iris Junglas, *Accenture Research Institute for High Performance, United States*.

Distance Education at the Graduate Level: A Viable Alternative?
Brian Jones, *Tennessee Technological University, United States*; Andrea Everard, *University of Delaware, United States*; Scott McCoy, *College of William and Mary, United States*.

EPCE S007

Engineering Psychology and Cognitive Ergonomics

Human Factors and Aviation Safety

Room: **Union**

Chair(s): Wen-Chin Li, *National Defense University, Taiwan*.

Rule Fragmentation in the Airworthiness Regulations: A Human Factors Perspective
Don Harris, *HFI Solutions Ltd, United Kingdom*.

The Number of Trials with Target Affects the Low Prevalence Effect
Fan Yang, Xianghong Sun, Kan Zhang, Biyun Zhu, *Chinese Academy of Sciences, P.R. China*.

Applied Cognitive Ergonomics Design Principles for Fighter Aircraft
Jens Alfredson, Johan Holmberg, Rikard Andersson, Maria Wikforss, *Saab, Sweden*.

Exploring the Relationship among Dimensions of Flight Comprehensive Capabilities Based on SEM
Ruishan Sun, Yang Li, *Civil Aviation University of China, P.R. China*.

Analysis of Mental Workload during En-route Air Traffic Control Task Execution based on Eye-Tracking Technique
Caroline Martin, *Universite de Toulouse / DGAC, DTI R&D, France*; Julien Cegarra, *Universite de Toulouse, France*; Philippe Averty, *DGAC, DTI R&D, France*.

UAHCI S008

continues ▶▶

Universal Access in Human-Computer Interaction

Sociocultural Aspects in Monolingual and Multilingual Human-Computer Interaction

Room: **Hamilton**

Chair(s): Christina Alexandris, *University of Athens, Greece*.

Multilingual aspects of reference and gaze
Kristiina Jokinen, *University of Helsinki, Finland*.

Greek Verbs and User Friendliness in the Speech Recognition and the Speech Production Module of Dialog Systems for the Broad Public
Christina Alexandris, Ioanna Malagardi, *University of Athens, Greece*.

Greek WordNet and Its Extension with Terms of the Computer Science Domain
Panagiotis Blitsas, Maria Grigoriadou, *University of Athens, Greece*.

A Multitasking Approach to Adaptive Spoken Dialogue Management
Tobias Heinroth, Dan Denich, Wolfgang Minker, *Ulm University, Germany*.

Integration of a Spanish-to-LSE Machine Translation System into an e-learning Platform
Fernando Lopez-Colino, Javier Tejedor, Jordi Porta, Jose Colas, *Universidad Autonoma de Madrid, Spain*.

I can't Hear You? Driver's Interacting with Male or Female Voices in Native or Non-Native Language
Ing-Marie Jonsson, Nils Dahlback, *Linkoping University, Sweden*.

TUESDAY 08:00 - 10:00

UAHCI S009

Inclusive Interaction Interfaces

Room: Nassau

Chair(s): Patrick Langdon, *University of Cambridge, United Kingdom*.

Evaluating the Design, Use and Learnability of Household Products for Older Individuals
Christopher Wilkinson, Patrick Langdon, P. John Clarkson, *University of Cambridge, United Kingdom*.

Eliciting Interaction Requirements for Adaptive Multimodal TV based Applications
Carlos Duarte, Jose Coelho, Pedro Feiteira, David Costa, Daniel Costa, *University of Lisbon, Portugal*.

Accessible UI Design and Multimodal Interaction through Hybrid TV Platforms: Towards a Virtual-user Centered Design Framework
Pascal Hamisu, *Fraunhofer, Germany*; Gregor Heinrich, *vsonix GmbH, Germany*; Christoph Jung, Volker Hahn, *Fraunhofer, Germany*; Carlos Duarte, *University of Lisbon, Portugal*; Patrick Langdon, Pradipta Biswas, *University of Cambridge, United Kingdom*.

The Contribution of Multimodal Adaptation Techniques to the GUIDE Interface
Jose Coelho, Carlos Duarte, *University of Lisbon, Portugal*.

Older User Errors in Handheld Touchscreen Devices: to What Extent is Prediction Possible?
Mike Bradley, Patrick Langdon, P. John Clarkson, *University of Cambridge, United Kingdom*.

Standardizing User Models
Pradipta Biswas, Patrick Langdon, *University of Cambridge, United Kingdom*.

Modelling Cognitive Impairment to Improve Universal Access
Elina Jokisuu, Patrick Langdon, P. John Clarkson, *University of Cambridge, United Kingdom*.

An Approach Towards Considering Users' Understanding in Product Design
Anna Mieczakowski, Patrick Langdon, P. John Clarkson, *University of Cambridge, United Kingdom*.

S010

Conversational Robots in HCI

Room: Palm Beach

Chair(s): Hirotada Ueda, *Kyoto Sangyo University, Japan*.

An Experiment for Motivating Elderly People with Robot Guided Interaction
Ryohei Sasama, Tomoharu Yamaguchi, Keiji Yamada, *NEC Corporation, Japan*.

Investigation of Users' Reactions Toward Various Kinds of Artificial Agents: Comparison of an Robotic Agent with an On-screen Agent
Takanori Komatsu, Yuuki Seki, *Shinshu University, Japan*; Ryohei Sasama, Tomoharu Yamaguchi, Keiji Yamada, *NEC Corporation, Japan*.

Importance of Physical Interaction between Human and Robot for Therapy
Takanori Shibata, *National Institute of Advanced Industrial Science & Technology (AIST), Japan*.

Building of Turn-taking Avatars that Express Utterance Attitudes - A Social Scientific Approach to Behavioral Design of Conversational Agents -
Masahide Yuasa, Naoki Mukawa, *Tokyo Denki University, Japan*.

An Experimental Study of the Use of Multiple Humanoid Robots as a Social Communication Medium
Kotaro Hayashi, *Nara Institute of Science and Technology, Japan*; Takayuki Kanda, *ATR Intelligent Robotics and Communication Laboratories, Japan*; Hiroshi Ishiguro, *Osaka University, Japan*; Tukasa Ogasawara, *Nara Institute of Science and Technology, Japan*; Norihiro Hagita, *Nara Institute of Science and Technology / ATR Intelligent Robotics & Communication Labs, Japan*.

Phynocation: A Prototyping of a Teaching Assistant Robot for C Language Class
Akihiro Ogino, Haruaki Tamada, Hirotada Ueda, *Kyoto Sangyo University, Japan*.

User Modeling through Unconscious Interaction with Smart Shop
Toshikazu Kato, *Chuo University, Japan*.

S011

Stakeholder -Driven Process Management

Room: Taylor

Chair(s): Christian Stary, *Johannes Kepler University of Linz, Austria*; Albert Fleischmann, *jCOM1 AG, Germany*.

Key Features of Subject-Oriented Modeling and Organizational Deployment Tools
Albert Fleischmann, *jCOM1 AG, Germany*; Christian Stary, *Johannes Kepler University of Linz, Austria*.

A Genesis of Thinking in the Evolution of Ancient Philosophy and Modern Software Development
Stephan Sneed, *Metasonic AG, Germany*.

Relationship between BPM Education and Business Process Solutions: Results of a Student Contest
Werner Schmidt, *University of Applied Sciences Ingolstadt, Germany*.

Stakeholder-driven Business Process Management - An Evaluation of the Suitability, Adequacy and Effectiveness of Quality and Process Management
Michael Jungen, *Consultant, Germany*.

Seeing the Wood for the Trees Again! SMART - A Holistic Way of Corporate Governance Offering a Solution Ready to Use
Fritz Bastarz, Patrick Halek, *INFOMEDIA services GmbH, Austria*.

Making Task Modeling Suitable for Stakeholder-Driven Workflow Specifications
Peter Forbrig, Anke Dittmar, Jens Bruning, Maik Wurdel, *University of Rostock, Germany*.

Crisis Management Training: Techniques for Eliciting and Describing Requirements and Early Designs across Different Incident Types
Ebba Thora Hvannberg, Jan Rudinsky, *University of Iceland, Iceland*.

Virtual and Mixed Reality

VMR S012

Developing Virtual Environments (I)

Room: Jade

Chair(s): Jan-Torsten Milde, *Fulda University of Applied Sciences, Germany*.

MSL_AR Toolkit: AR Authoring Tool with Interactive Features
Jinwook Shim, Jong-Hoon Seo, Tack-Don Han, *Yonsei University, Korea*.

Semantic Web-Techniques and Software Agents for the Automatic Integration of Virtual Prototypes
Rafael Radkowski, *Heinz Nixdorf Institute, Germany*; Florian Weidemann, *University of Paderborn, Germany*.

Mesh Deformations in X3D via CUDA with Freeform Deformation Lattices
Yvonne Jung, Holger Graf, Johannes Behr, Arjan Kuijper, *Fraunhofer, Germany*.

Acceleration of Massive Particle Data Visualization Based on GPU
Hyun-Rok Yang, Kyung-Kyu Kang, Dongho Kim, *Soongsil University, Korea*.

Stroke-based Semi-automatic Region of Interest Detection Algorithm for In-situ Painting Recognition
Youngkyoon Jang, Woontack Woo, *Gwangju Institute of Science and Technology (GIST), Korea*.

Virtual Reality as Knowledge Enhancement Tool for Musculoskeletal Pathology
Sophia Sakellariou, *NHS Greater Glasgow and Clyde, United Kingdom*; Vassilis Charissis, *Glasgow Caledonian University, United Kingdom*; Stephen Grant, *NHS Ayrshire and Arran, United Kingdom*; Janice Turner, Diane Kelly, *NHS Education for Scotland, United Kingdom*; Christodoulos Christomanos, *Core Lab + Ltd. Software Developing Group, United Kingdom*.

Touching Sharp Virtual Objects Produces a Haptic Illusion
Andrea Brogni, Darwin Caldwell, *Istituto Italiano di Tecnologia (IIT), Italy*; Mel Slater, *University College London, UK / ICREA-Universidad de Barcelona, Spain*.

IDGD S013

Internationalization, Design and Global Development

Cultural Design Issues

Room: **Sarasota**

Chair(s): Hsiu-Ping Yueh, *National Taiwan University, Taiwan.*

Menu Design of Digital Photo Frame for Older Users
Hsiu-Ping Yueh, Weijane Lin, Tzu-Yi Lu, Yen-Lien Chou, *National Taiwan University, Taiwan.*

Design and Construction of SNS Platform and «Working Room» for Community for fostering Japanese teachers
Masayuki Murakami, Naoki Nakamata, Kumiko Nakanishi, Kikuko Yui, *Kyoto University of Foreign Studies, Japan.*

Design Ethics Education in Taiwan: A Study of Syllabi of Ethics-Related Courses
Manlai You, Yingying Lee, *National Yunlin University of Science and Technology, Taiwan.*

Cultural Effects on Arabic Electronic TV
Maysoon Abulkhair, Heba Abdrabu, Hanadi Aljada'ani, Sultana Alsahafi, Reem Alsaggaf, *King AbdulAziz University, Saudi Arabia.*

Animating our Island's Culture – Spreading and Socializing our Island's Culture through Digital Animation
Flavio Andalo, Milton Vieira, *Federal University of Santa Catarina, Brazil.*

The Cultural Integration of Knowledge Management into Interactive Design
Javed Sheikh, Bob Fields, Elke Duncker, *Middlesex University, United Kingdom.*

Computer Usage and User Experience in Jordan: Development and Application of the Diamond Model of Territorial Factors
Fuad El-Qirem, *Al-Zaytoonah University of Jordan, Jordan*; Gilbert Cockton, *Northumbria University, United Kingdom.*

S014

Mobile & Internet @ User Experience

Room: **Orange**

Chair(s): Hong Ji, *China Telecom Corp., Ltd., P.R. China.*

A Proposal of a Model to Evaluate the Usability Performance of the Product with Different Patterns
Danxin Li, Tingzi Ouyang, Ning Yang, *China Telecom Corp., Ltd., P.R. China.*

A Study on the Reference Standard for WAP-specific Chinese Character Design
Ning Yang, Xuling Xu, Fengguo Guo, *China Telecom Corp., Ltd., P.R. China.*

The Solution of Mobile Phone Client Product Usability Evaluation
Hong Ji, Weiwen Zhou, Fengguo Guo, *China Telecom Corp., Ltd., P.R. China.*

Reading Chinese in eBook Readers: a Review
Liang Ma, P.L. Patrick Rau, *Tsinghua University, P.R. China.*

Once Broken, Never Fixed? The Impact of Culture and Medium on Repairing Trust in CMC
Qiping Zhang, Nancy Marksbury, *Long Island University, United States.*

Using Metaphors to Explore Cultural Perspectives in Cross-Cultural Design
Luciana Salgado, Clarisse Sieckenius De Souza, Carla Leitao, *PUC - Rio de Janeiro, Brazil.*

AC S015

Augmented Cognition

Assessment of Team NeuroDynamics during Training

Room: **Madison**

Chair(s): Chris Berka, *Advanced Brain Monitoring, Inc., United States*; Ron Stevens, *UCLA IMMEX Project, United States.*

Developing Systems for the Rapid Modeling of Team Neurodynamics
Ron Stevens, Trysha Galloway, *UCLA IMMEX Project, United States*; Chris Berka, *Advanced Brain Monitoring, Inc., United States*; Peter Wang, *UCLA IMMEX Project, United States.*

Team Coordination Dynamics and the Interactive Approach: Emerging Evidence and Future Work
Jamie Gorman, *Texas Tech University, United States.*

Enhancing Team Performance using Neurophysiologic Synchronies in a Virtual Training Environment
Marianne Clark, Kimberly Cellucci, *Scientific Research Corporation, United States*; Chris Berka, Daniel Levendowski, Jonny Trejo, *Advanced Brain Monitoring, Inc., United States*; Amy Kruse, *Total Immersion Software, Inc., United States*; Ron Stevens, *UCLA IMMEX Project, United States.*

Augmenting Robot Behaviors Using Psycho Physiological Measures
Daniel Barber, Lauren Reinerman-Jones, Stephanie Lackey, *University of Central Florida, United States*; Irwin Hudson, *US Army Research Laboratory, United States.*

Multi-modal Measurement Approach to Team Cohesion
Camilla Knott, Alexandra Geyer, Jason Sidman, Emily Wiese, *Aptima, Inc., United States.*

Performance-based Metrics for Evaluating Submarine Command Team Decision-making
Eric Jones, *Aptima, Inc., United States*; Ronald Steed, *UpScope Consulting, United States*; Federick Diedrich, *Aptima, Inc., United States*; Robert Armbruster, *Commander, Submarine Force Atlantic, United States*; Cullen Jackson, *Aptima, Inc., United States.*

Communications-Based Automated Assessment of Team Cognitive Performance
Kiran Lakkaraju, Susan Stevens-Adams, Robert Abbott, Chris Forsythe, *Sandia National Laboratories, United States.*

DHM S016

Digital Human Modeling

Motion Modelling

Room: **Fulton**

Chair(s): Wen-chih Chang, *National Taiwan University of Science and Technology, Taiwan.*

Simulating Ingress Motion for Heavy Earthmoving Equipment
HyunJung Kwon, *The University of Iowa, United States*; Mahdiar Hariri, *University of Iowa, United States*; Rajan Bhatt, Jasbir Arora, Karim Abdel-Malek, *The University of Iowa, United States.*

A Biomechanical Approach for Evaluating Motion Related Discomfort : Illustration by an Application to Pedal Clutching Movement
Xuguang Wang, *IFSTTAR, France*; Romain Pannetier, *IFSTTAR / Renault SAS, France*; Nagananda Burra, Julien Numa, *IFSTTAR, France.*

Joint Torque Modeling of Knee Extension and Flexion
Fabian Guenzkofer, Florian Engstler, Heiner Bubb, Klaus Bengler, *Technische Universitat Munchen, Germany.*

Motion Capture Experiments for Validating Optimization-Based Human Models
Aimee Cloutier, Robyn Boothby, Jingzhou (James) Yang, *Texas Tech University, United States.*

3D Human Motion Capturing Based only on Acceleration and Angular Rate Measurement for Low Extremities
Christoph Schiefer, *RWTH Aachen University / German Social Accident Insurance (DGUV), Germany*; Thomas Kraus, Elke Ochsmann, *RWTH Aachen University, Germany*; Ingo Hermanns, Rolf Ellegast, *German Social Accident Insurance (DGUV), Germany.*

Schema for Motion Capture Data Management
Ali Keyvani, Henrik Johansson, Mikael Ericsson, *University West, Sweden*; Dan Lamkull, *Volvo Car Corporation, Sweden*; Roland Ortengren, *Chalmers University of Technology, Sweden.*

HCD S017

Human Centered Design

Human Systems Integration Design: from Biology to Technology and Organization

Room: **Empire**

Chair(s): Didier Fass, *LORIA, University of Lorraine, France.*

Co-simulation and Multi-models for Pervasive Computing as a Complex System
Laurent Ciarletta, *Ecole des Mines in NANCY, France.*

A Methodical Approach for Developing Valid Human Performance Models of Flight Deck Operations
Brian Gore, Becky Hooey, *SJSU/NASA Ames Research Center, United States*; Nancy Haan, *Dell Services Federal Government, United States*; Deborah Bakowski, Eric Mahlstedt, *SJSU/NASA Ames Research Center, United States.*

Aggregation of Human Activities - Building Flight Proles
David Gueron, Laurent Chaudron, Nicolas Maille, *ONERA «The French Aerospace Lab», France*; Jean Caussanel, *University of Paul Cezanne, Aix-Marseille III, France.*

Human Systems Integration Design: Which Generalized Rationale?
Romain Lieber, Didier Fass, *LORIA, University of Lorraine, France.*

Semantic-Conditioned Peripheral Vision Acuity Fading Awareness (PVAFA)
Ming-Chia Wang, Manlai You, *National Yunlin University of Science and Technology, Taiwan.*

Influence of a Multimodal Assistance Supporting Anticipatory Driving on the Driving Behavior and Driver's Acceptance
Hermann Hajek, Daria Popiv, *Technische Universitat Munchen, Germany*; Mariana Just, *BMW Group Forschung und Technik, Germany*; Klaus Bengler, *Technische Universitat Munchen, Germany.*

DUXU S018 S019

Design, User Experience, and Usability

UX/UI Design

Room: **Manatee**

Chair(s): Gyouhyung Kyung, *Ulsan National Institute of Science & Technology (UNIST), Korea.*

Usability Studies: Rigor, or Rigor Mortis?

Room: **Escambia**

Chair(s): Randolph Bias, *The University of Texas at Austin, United States.*

Measurement of User Experience to Select a Comfortable Mattress
Jung-Yong Kim, Seung-Nam Min, Min-Ho Lee, Joo-Hyun Jeong, *Hanyang University, Korea*; Jung-Ho An, Young-Sung Shin, *Simmons Co. Ltd, Korea.*

Versatile Wearable Computer for Drivers
Gyouhyung Kyung, Songyi Chae, Kyung Hyun Nam, *Ulsan National Institute of Science & Technology (UNIST), Korea*; Kyungmin Lee, Wanjae Shin, *Hyundai-Kia Motors, Korea.*

Measuring Drivers' Dynamic Seating Experience Using Pressure Mats
Songyi Chae, Gyouhyung Kyung, Kyung Hyun Nam, *Ulsan National Institute of Science & Technology (UNIST), Korea.*

Investigating the Integration of Hand-held Haptic Devices in Daily Work Activities: The Case of a Tennis Coaching Assistant on iPhone
Evanthia Faliagka, *University of Patras, Greece*; Petros Karkoulias, *Hellenic Open University, Greece*; Maria Rigou, *University of Patras, Greece*; Spiros Sirmakessis, Giannis Tzimas, *Technological Institution of Messologhi, Greece*; Athanasios Tsakalidis, *University of Patras, Greece.*

User Evaluation of Internet Kiosks in University Setting
Erkan Er, Kursat Cagiltay, *Middle East Technical University, Turkey.*

Impact of Distance to Screen upon Spacial Awareness
Kazuya Kuroda, Makio Ishihara, *Fukuoka Institute of Technology, Japan.*

Range Statistics and the Exact Modeling of Discrete non-Gaussian Distributions on Learnability Data
Robert Hoffman, *Institute for Human-Machine Cognition, United States.*

Detection of Software Usability Deficiencies
Dan Tamir, Oleg Komogortsev, Carl Mueller, Divya K. D. Venkata, Greg LaKomski, Arwa Jamnagarwala, *Texas State University, United States.*

EMA: Automated Eye-movement-driven Approach for Identification of Usability Issues
Oleg Komogortsev, Dan Tamir, Carl Mueller, *Texas State University, United States*; Jose Camou, The *Iowa State University, United States*; Corey Holland, *Texas State University, United States.*

Fishing for Results: A multi-pronged approach to promote usability for TSLAC.
Stacy Michaelsen, Randolph Bias, *The University of Texas at Austin, United States.*

The Importance of Rigor in Usability Studies
Randolph Bias, *The University of Texas at Austin, United States.*

Serious Games Usability Testing: How to Ensure Proper Usability, Playability, and Effectiveness
Tanner Olsen, Katelyn Procci, Clint Bowers, *University of Central Florida, United States.*

HIMI — Human Interface and the Management of Information

S020

Human Factors Considerations in NextGen

Room: Madison

Chair(s): Kim-Phuong Vu, *California State University, Long Beach, United States*.

How Data Comm Methods and Multi-Dimensional Traffic Displays Influence Pilot Workload under Trajectory Based Operations
Jimmy Nguyen, L. Paige Bacon, R. Conrad Rorie, Meghann Herron, Kim-Phuong Vu, Thomas Strybel, *California State University, Long Beach, United States*; Vernol Battiste, *SJSU/NASA Ames Research Center, United States*.

Flight Deck Workload and Acceptability of Verbal and Digital Communication Protocols
Summer Brandt, Joel Lachter, Quang Dao, Vernol Battiste, *SJSU/NASA Ames Research Center, United States*; Walter Johnson, *NASA Ames Research Center, United States*.

Is ACARS and FANS-1A Just Another Data Link to the Controller?
Vernol Battiste, Joel Lachter, Sarah Ligda, *SJSU/NASA Ames Research Center, United States*; Jimmy Nguyen, L. Paige Bacon, *California State University, Long Beach, United States*; Robert Koteskey, *SJSU/NASA Ames Research Center, United States*; Walter Johnson, *NASA Ames Research Center, United States*.

Conflict Resolution Automation and Pilot Situation Awareness
Quang Dao, Summer Brandt, *SJSU/NASA Ames Research Center, United States*; L. Paige Bacon, Joshua Kraut, Jimmy Nguyen, Katsumi Minakata, Hamzah Raza, *California State University, Long Beach, United States*; Walter Johnson, *NASA Ames Research Center, United States*.

Effect of ATC Training with NextGen Tools and Online Situation Awareness and Workload Probes on Operator Performance
Ariana Kiken, R. Conrad Rorie, L. Paige Bacon, Sabrina Billinghurst, Joshua Kraut, Thomas Strybel, Kim-Phuong Vu, *California State University, Long Beach, United States*; Vernol Battiste, *SJSU/NASA Ames Research Center, United States*.

Effects of Data Communications Failure on Air Traffic Controller Sector Management Effectiveness, Situation Awareness, and Workload
Joshua Kraut, Ariana Kiken, Sabrina Billinghurst, Corey Morgan, Thomas Strybel, Dan Chiappe, Kim-Phuong Vu, *California State University, Long Beach, United States*.

A Preliminary Investigation of Training Order for Introducing NextGen Tools
R. Conrad Rorie, Ariana Kiken, Corey Morgan, Sabrina Billinghurst, Gregory Morales, Kevin Monk, Kim-Phuong Vu, Thomas Strybel, *California State University, Long Beach, United States*; Vernol Battiste, *SJSU/NASA Ames Research Center, United States*.

S021

Personal, Family and Social Media

Room: Liberty

Chair(s): Gheorghita Ghinea, *Brunel University, United Kingdom*.

Experience Explorer: Context-based Browsing of Personal Media
Tuomas Vaittinen, *Nokia Research Center, Finland*; Tuula Karkkainen, *Tampere University of Technology, Finland*; Kimmo Roimela, *Nokia Research Center, Finland*.

SAM: A Spatial Interactive Platform for Studying Family Communication Problem
Guo-Jhen Yu, Teng-Wen Chang, Ying-Chong Wang, *National Yunlin University of Science and Technology, Taiwan*.

Interface Evaluation of Web-based e-Picture Books in Taiwan
Pei-shiuan Tsai, Manlai You, *National Yunlin University of Science and Technology, Taiwan*.

Analysis on Relationship between Smiley and Emotional Word Included in Chat Text
Junko Itou, Tomoyasu Ogaki, Jun Munemori, *Wakayama University, Japan*.

Co-Creation of Value through Social Network Marketing: A Field Experiment Using a Facebook Campaign to Increase Conversion Rate
Asle Fagerstrom, *Norwegian School of IT, Norway*; Gheorghita Ghinea, *Brunel University, United Kingdom*.

Research on the Relationships between Visual Entertainment Factor and Chat Communication
Tomoyasu Ogaki, Junko Itou, Jun Munemori, *Wakayama University, Japan*.

«Life Portal»: An Information Access Scheme based on Life Logs
Shin-ichiro Eitoku, Manabu Motegi, Rika Mochizuki, Takashi Yagi, Shin-yo Muto, *NTT Corporation, Japan*; Masanobu Abe, *Okayama University, Japan*.

HCI — Human-Computer Interaction

continues ▶▶

S022

New Technology and User Experience for Ubiquitous and Mobile Learning

Room: Hamilton

Chair(s): Takashi Mitsuishi, *Tohoku University, Japan*; Hitoshi Sasaki, *Takushoku University, Japan*; Yuichi Ohkawa, *Tohoku University, Japan*.

A Reading History Logger for Supporting Reading Habit Development
Yasuo Miyoshi, Takaaki Obayashi, *Kochi University, Japan*.

Visualization Framework for Computer System Learning
Eiichi Hayakawa, Yuuki Nakagawa, Hideharu Ochiai, Masahiko Fuji, *Takushoku University, Japan*; Yosuke Nishino, *Hachioji Soshi High School, Japan*.

A Development of Web-based Player for Instructions Recorded with the Electronic Blackboard System IMPRESSION
Yuichi Ohkawa, Takashi Mitsuishi, *Tohoku University, Japan*.

A Drawing Learning Support System with Auto-evaluating Function based on the Drawing Process Model
Takashi Nagai, Mizue Kayama, Kazunori Itoh, *Shinshu University, Japan*.

Evaluation of Continuous Trial by Mobile Learning in Nursing Practical Training
Yukie Majima, Yumiko Nakamura, Yasuko Maekawa, Mizuko Hiramatsu, Yukari Nakajima, Satoshi Horii, Hifumi Aoyama, *Osaka Prefecture University, Japan*.

Evaluation of Online Handwritten Characters for Penmanship Learning Support System
Tatsuya Yamaguchi, Noriaki Muranaka, Masataka Tokumaru, *Kansai University, Japan*.

S023

Patterns and Models for Interactive System Development

Room: Empire

Chair(s): Christian Martin, *Augsburg University of Applied Sciences, Germany*; Peter Forbrig, *University of Rostock, Germany*.

HCI Patterns as a Means to Transform Interactive User Interfaces to Diverse Contexts of Use
Juergen Engel, Christian Martin, *Augsburg University of Applied Sciences, Germany*; Peter Forbrig, *University of Rostock, Germany*.

Towards Pattern-Driven Engineering of Run-Time Adaptive User Interfaces for Smart Production Environments
Marc Seissler, Kai Breiner, *University of Kaiserslautern, Germany*; Gerrit Meixner, *German Research Center for Artificial Intelligence (DFKI), Germany*.

User Modeling Approaches towards Adaptation of Users' Roles to Improve Group Interaction in Collaborative 3D Games
Johanna Octavia, Anastasiia Beznosyk, Karin Coninx, Peter Quax, Kris Luyten, *Hasselt University – tUL - IBBT, Belgium*.

User-oriented Accessibility Patterns for Smart Environments
Michael Zaki, Peter Forbrig, *University of Rostock, Germany*.

Patterns for usable Accessible Design
Homa Javahery, Michael Gower, *IBM Pacific Development Centre, Canada*; Daniel Sinnig, *Concordia University, Canada*; Peter Forbrig, *University of Rostock, Germany*.

From Structural Analysis to Scenarios and Patterns for Knowledge Sharing Applications
Claus Kaelber, *teamwissen, Germany*; Christian Martin, *Augsburg University of Applied Sciences, Germany*.

The First Interaction Design Pattern Library for Internet of Things User Created Applications
Marc Godon, Mohamed Ali Feki, Marc Roelands, Lieven Trappeniers, *Alcatel Lucent Bell Labs, Belgium*.

TUESDAY 10:30 - 12:30

HCI S024

Developing Service Cognition

Room: **Jade**

Chair(s): Taro Kanno, *The University of Tokyo, Japan*; Tom Hope, *Tokyo Institute of Technology, Japan*.

Design of Communication Field for Leading to Satisfied Understanding: Example of High-Level Radioactive Waste Disposal in Japan
Hiroshi Kimura, Masashi Furukawa, *The University of Tokyo, Japan*.

Cognitive Analysis for Knowledge Modelling in Air Traffic Control Work
Satoru Inoue, Hisae Aoyama, *Electronic Navigation Research Institute, Japan*; Keiichi Nakata, *University of Reading, United Kingdom*.

A Framework for Agent-based Simulation in Tourism Planning
Dingding Chao, Kazuo Furuta, Taro Kanno, *The University of Tokyo, Japan*.

Emotional Human-Machine Interaction: Cues from Facial Expressions
Tessa-Karina Tews, Michael Oehl, Felix Siebert, Rainer Hoger, Helmut Faasch, *Leuphana University of Lueneburg, Germany*.

Interactions between Human and Computer Networks: EFL College Students Using Computer Learning Tools in Remedial English Classes
Ai-ling Wang, *Tamkang University, Taiwan*.

Using Grounded Theory and Text Mining to Find Interesting Reading Materials for Slow EFL Learners
Yuh-chang Lin, *Aletheia University, Taiwan*; Chia-Ling Hsu, *Tamkang University, Taiwan*; Mu-Hua Lin, Hsiao-Fang Yang, *National Chengchi University, Taiwan*; Chao-Fu Hong, *Aletheia University, Taiwan*.

Spatial Design, Designers and Users: Exploring the Meaning of Multi-party Service Cognition
Tom Hope, *Tokyo Institute of Technology, Japan*; Mizuki Oka, Yasuhiro Hashimoto, *The University of Tokyo, Japan*; Myeong-Hee Lee, *Design Team Matt, Japan*.

HCI S025

Safety of Medication Usage

Room: **Park**

Chair(s): Masaomi Kimura, *Shibaura Institute of Technology, Japan*.

The Similarity Index of Character Shape of Medicine Names Based on Character Shape Similarity (II)
Keita Nabeta, Akira Hatano, Hirotsugu Ishida, Masaomi Kimura, Michiko Ohkura, *Shibaura Institute of Technology, Japan*; Fumito Tsuchiya, *International University of Health and Welfare, Japan*.

Therapeutic Category Improvement Method based on the Words Appearing in Effect-efficacy Description
Hirotsugu Ishida, Keita Nabeta, Masaomi Kimura, Michiko Ohkura, *Shibaura Institute of Technology, Japan*; Fumito Tsuchiya, *International University of Health and Welfare, Japan*.

Appearance Similarity Index for Medicinal Ampoule Labels
Masaomi Kimura, Yutaro Furukawa, Akira Kojo, Hirotsugu Ishida, Keita Nabeta, Michiko Ohkura, *Shibaura Institute of Technology, Japan*; Fumito Tsuchiya, *International University of Health and Welfare, Japan*.

A Proposal of Contraindication Database for Medicines
Ryo Okuya, Hirotsugu Ishida, Keita Nabeta, Masaomi Kimura, Michiko Ohkura, *Shibaura Institute of Technology, Japan*; Fumito Tsuchiya, *International University of Health and Welfare, Japan*.

Construction and Analysis of Database on Outer Cases of Medicines
Hironori Yoshimi, Hiroki Muraoka, Akira Izumiya, Masaomi Kimura, Michiko Ohkura, *Shibaura Institute of Technology, Japan*; Fumito Tsuchiya, *International University of Health and Welfare, Japan*.

Mobile Reminder for Flexible and Safe Medication Schedule for Home Users
Chi-Sheng Shih, *National Taiwan University, Taiwan*; Pei-Hsuan Tsai, Jane W.-S. Liu, *Academia Sinica, Taiwan*.

What Label Design of Ampule for Injection, Do you want ?
Hiroyuki Furukawa, *Yamaguchi University, Japan*.

EPCE S026

Engineering Psychology and Cognitive Ergonomics

Industrial and Military Applications

Room: **Palm Beach**

Chair(s): Andrew Thatcher, *University of the Witwatersrand, South Africa*.

Effective Shift Handover
Tom Plocher, *Honeywell Labs, United States*; ShanQing Yin, *Nanyang Technological University, Singapore*; Jason Laberge, *Honeywell Labs, United States*; Brian Thompson, *ENGEN Petroleum, Ltd., South Africa*; Jason Telner, *Honeywell Automation and Control Solutions, Canada*.

Cognitive Engineering of Automated Assembly Processes
Marcel Mayer, Barbara Odenthal, Carsten Wagels, Sinem Kuz, Bernhard Kausch, Christopher Schlick, *RWTH Aachen University, Germany*.

Pre-Validation of Nuclear Power Plant Control Room Design
Jari Laarni, Paula Savioja, Hannu Karvonen, Leena Norros, *VTT Technical Research Centre of Finland, Finland*.

An After Action Review Engine for Training in Multiple Areas
Glenn Martin, Jason Daly, Casey Thurston, *University of Central Florida, United States*.

A Generic After Action Review Capability for Game-based Training
Casey Thurston, Glenn Martin, *University of Central Florida, United States*.

Technological and Usability-based Aspects of Distributed After Action Review in a Game-based Training Setting
Matt Fontaine, Glenn Martin, Jason Daly, Casey Thurston, *University of Central Florida, United States*.

UAHCI S027

Universal Access in Human-Computer Interaction

The Future of Universal Access (I)

Room: **Union**

Chair(s): Gisela Susanne Bahr, *Florida Institute of Technology, United States*; Ray Adams, *Middlesex University, United Kingdom*.

Integrating Human Modeling and Simulation with the Persona Method
Taro Kanno, Tomohiko Ooyabu, Kazuo Furuta, *The University of Tokyo, Japan*.

Understanding the Role of Communication and Hands-On Experience in Work Process Design for All
Christian Stary, *Johannes Kepler University of Linz, Austria*.

Eye Tracking and Universal Access: Three Applications and Practical Examples
Michael Bartels, Sandra Marshall, *EyeTracking, Inc., United States*.

Cyber Risks to Secure and Private Universal Access
Gisela Susanne Bahr, *Florida Institute of Technology, United States*; Liam Mayron, *Harris Corp., United States*; Hannah Gacey, *Florida Institute of Technology, United States*.

Design of a Multi-interface Creativity Support Tool for the Enhancement of the Creativity Process
George Sielis, George Papadopoulos, *University of Cyprus, Cyprus*; Andrina Granic, *University of Split, Croatia*.

S028

SMART Interfaces for Consumer Health Applications (I)

Room: **Taylor**

Chair(s): Josette Jones, *Indiana University, United States*.

Tracking Observations of Everyday Living with Smart Phones
Michelle Rogers, *Drexel University, United States*.

Design of a Paired Patient-Caregiver Support Application for People Coping with Cancer
Chris Newlon, Robert Comer, Kim Wagler-Ziner, Anna McDaniel, *Indiana University, United States*.

Design Lessons for Older Adult Personal Health Records Software from Older Adults
Juan Pablo Hourcade, Elizabeth Chrischilles, Brian Gryzlak, Blake Hanson, Don Dunbar, David Eichmann, Ryan Lorentzen, *The University of Iowa, United States*.

Patient-centered Connected Health: User Experience for People with Diverse Abilities and Needs
Douglas Dormer, *White Pine Systems, LLC dba SPINNphr, United States*.

Privacy, Security and Interoperability of Mobile Health Applications
Josette Jones, Sara Anne Hook, Seong Park, LaSha Scott, *Indiana University, United States*.

A Case Study of the Design and Evaluation of a Persuasive Healthy Lifestyle Assistance Technology: Challenges and Design Guidelines
Jie Xu, Ping-yu Chen, Scott Uglow, Alison Scott, Enid Montague, *University of Wisconsin-Madison, United States*.

S029

Looking for an Accessible Life; while in Desktop, Mobile and Web

Room: **Manatee**

Chair(s): Evangelos Bekiaris, *Centre for Research and Technology Hellas (CERTH), Greece*.

Developing Accessible Mobile Phone Applications: The Case of a Contact Manager and Real Time Text Applications
Javier Cano Moreno, Maria Fernanda Cabrera-Umpierrez, *Universidad Politecnica de Madrid, Spain*; Jon Azpiroz, *Vodafone Spain Foundation, Spain*; Juan Bautista Montalva Colomer, Maria Teresa Arredondo, Adrian Rodriguez Castro, *Universidad Politecnica de Madrid, Spain*.

An End-user Evaluation Point of View Towards OSS Assistive Technology
Maria Gkemou, Evangelos Bekiaris, *Centre for Research and Technology Hellas (CERTH), Greece*; Karel Van Isacker, *European Platform for Rehabilitation, Belgium*.

Results of the Technical Validation of an Accessible Contact Manager for Mobile Devices
Jon Azpiroz, *Vodafone Spain Foundation, Spain*; Juan Bautista Montalva Colomer, Maria Fernanda Cabrera-Umpierrez, Maria Teresa Arredondo, Julio Gutierrez Rios, *Universidad Politecnica de Madrid, Spain*.

A Harmonised Methodology for the Components of Software Applications Accessibility and its Evaluation
Eleni Chalkia, Evangelos Bekiaris, *Centre for Research and Technology Hellas (CERTH), Greece*.

Enabling Accessibility Characteristics in the Web Services Domain
Dimitris Giakoumis, Dimitrios Tzovaras, *Centre for Research and Technology Hellas (CERTH), Greece*; George Hassapis, *Aristotle University of Thessaloniki, Greece*.

An Accessibility Assessment Framework for Improving Designers Experience in Web Applications
Theofanis Oikonomou, Nikolaos Kaklanis, Konstantinos Votis, Dimitrios Tzovaras, *Centre for Research and Technology Hellas (CERTH), Greece*.

Overview of 1st AEGIS Pilot Phase Evaluation Results
Maria Gkemou, Evangelos Bekiaris, *Centre for Research and Technology Hellas (CERTH), Greece*.

S030

Human, Computer and Environment

Room: **Sarasota**

Chair(s): Jerzy Charytonowicz, *Wroclaw University of Technology, Poland*.

Numerical Analysys of Geometrical Features of 3D Biological Objects, for Three-Dimensional Biometric and Anthropometric Database
Michal Rychlik, Witold Stankiewicz, Marek Morzynski, *Poznan University of Technology, Poland*.

Integral Model of the Area of Reaches and Forces of a Disabled Person with Dysfunction of Lower Limbs as a Tool in Vitrual Assessment of Manipulation Possibilities in Selected Work Environments
Bogdan Branowski, Piotr Pohl, Michal Rychlik, Marek Zablocki, *Poznan University of Technology, Poland*.

Disabled Youth in Sport Rivalry. What are the Trends – Virtual or Real Competition?
Katarzyna Ujma-Wasowicz, *Silesian University of Technology, Poland*.

New Design – Integration of Art and Technology
Wojciech Bonenberg, *Poznan University of Technology, Poland*.

Spaces of Mutable Shape and the Human Ability to Adapt
Katarzyna Kubsik, *Wroclaw University of Technology, Poland*.

Machinery Design for Construction Safety in Practice
Beata Mrugalska, Aleksandra Kawecka-Endler, *Poznan University of Technology, Poland*.

Effect of Protective Coating on the Performance of Wearable Antennas
Minyoung Suh, Kate Carroll, William Oxenham, *North Carolina State University, United States*.

VMR S031

continues ▶▶

Virtual and Mixed Reality

Digital Puppetry: Bringing Virtual Characters to Life

Room: **Fulton**

Chair(s): Charles Hughes, *University of Central Florida, United States*.

Body Buddies: Social Signaling through Puppeteering
Magy Seif El Nasr, *Simon Fraser University, Canada*; Katherine Isbister, *New York University-Poly, United States*; Jeffery Ventrella, *Internet Archive, United States*; Bardia Aghabeigi, *Simon Fraser University, Canada*; Chelsea Hash, *New York University-Poly, United States*; Mona Erfani, *Simon Fraser University, Canada*; Jacquelyn Morie, *University of Southern California, United States*; Leslie Bishko, *Emily Carr University of Art and Design, Canada*.

Geppetto: An Environment for the Efficient Control and Transmission of Digital Puppetry
Daniel Mapes, Peter Tonner, Charles Hughes, *University of Central Florida, United States*.

Leveraging Unencumbered Full Body Control of Animated Virtual Characters for Game-Based Rehabilitation
Belinda Lange, Evan Suma, Brad Newman, Thai Phan, Chien-Yen Chang, Albert "Skip" Rizzo, Mark Bolas, *University of Southern California, United States*.

Why Can't A Virtual Character Be More Like A Human: A Mixed-initiative Approach to Believable Agents
Jichen Zhu, J. Michael Moshell, *University of Central Florida, United States*; Santiago Ontanon, *University of Barcelona, Spain*; Elena Erbiceanu, Charles Hughes, *University of Central Florida, United States*.

Interactive Performance: Dramatic Improvisation in a Mixed Reality Environment for Learning
Jeff Wirth, *Wirth Creative, United States*; Anne Norris, Daniel Mapes, *University of Central Florida, United States*; Kenneth Ingraham, *The Proposal Experts, LLC, United States*; J. Michael Moshell, *University of Central Florida, United States*.

Integrating Multi-agents in a 3D Serious Game Aimed at Cognitive Stimulation
Priscilla Abreu, *Rio de Janeiro State University, Brazil*; Luis Carvalho, *Federal University of Rio de Janeiro, Brazil*; Vera Werneck, Rosa Costa, *Rio de Janeiro State University, Brazil*.

Automatic 3-D Facial Fitting Technique for A Second Life Avatar
Hiroshi Dohi, Mitsuru Ishizuka, *The University of Tokyo, Japan*.

TUESDAY 10:30 - 12:30

TUESDAY 10:30 - 12:30

VMR S032

Interaction and Navigation in Virtual Environments

Room: Lexington

Chair(s): Scott Frees, *Ramapo College of New Jersey, United States*.

Evaluation of Human Performance Using Two Types of Navigation Interfaces in Virtual Reality
Luis Teixeira, *Technical University of Lisbon, Portugal*; Emilia Duarte, *UNIDCOM/IADE, Portugal*; Julia Teles, Francisco Rebelo, *Technical University of Lisbon, Portugal*.

Effects of Menu Orientation on Pointing Behavior in Virtual Environments
Nguyen-Thong Dang, Daniel Mestre, *CNRS and University of Aix Marseille II, France*.

Panoramic Image-based Navigation for Smart-phone in Indoor Environment
Van Vinh Nguyen, Jin Guk Kim, Jong Weon Lee, *Sejong University, Korea*.

Object Selection in Virtual Environments: Performance, Usability and Interaction with Spatial Abilities
Andreas Baier, *University of Regensburg, Germany*; David Wittmann, Martin Ende, *Cassidian Air Systems, Germany*.

Some Evidences of the Impact of Environment's Design Features in Routes Selection in Virtual Environments
Emilia Duarte, *UNIDCOM/IADE, Portugal*; Elisangela Vilar, Francisco Rebelo, Julia Teles, *Technical University of Lisbon, Portugal*; Ana Almeida, *UNIDCOM/IADE, Portugal*.

Workspace-Driven, Blended Orbital Viewing in Immersive Environments
Scott Frees, David Lancellotti, *Ramapo College of New Jersey, United States*.

Active Location Tracking for Projected Reality Using Wiimotes
Siam Charoenseang, Nemin Suksen, *King Mongkut's University of Technology Thonburi (KMUTT), Thailand*.

Internationalization, Design and Global Development

IDGD S033

Designing "Friendship" into Modern Products (I)

Room: Jackson

Chair(s): Rungtai Lin, *National Taiwan University of Arts, Taiwan*.

The Importance of "Feel" in Product Design Feel - The Neglected Aesthetic "Do Not Touch"
John Kreifeldt, *Tufts University, United States*; Rungtai Lin, *National Taiwan University of Arts, Taiwan*; Ming-Chuen Chuang, *National Chiao Tung University, Taiwan*.

Applying Local Culture Features into Creative Craft Products Design
Mo-Li Yeh, *MingDao University, Taiwan*; Po-Hsien Lin, *National Taiwan University of Arts, Taiwan*.

Friendship Display Medium in Response to Academic Major Influences in Visuospatial Abilities
Yen-Yu Kang, *National Kaohsiung Normal University, Taiwan*; Chih-Long Lin, Shu-Hsuan Chang, *National Taiwan University of Arts, Taiwan*; Mao-Jiun Wang, *National Tsing Hua University, Taiwan*.

A Study of Framework and Process Development for Cultural Product Design
Chi-Hsien Hsu, Chih-Long Lin, Rungtai Lin, *National Taiwan University of Arts, Taiwan*.

Design and Evaluation of a Novel Trackball Input Device for Middle-aged Users
Fong-Gong Wu, Jack Chuang, Chien-Hsu Chen, Li-Ru Lai, *National Cheng Kung University, Taiwan*.

The Entwined Economic and Cultural Issues in the Production of Barbie in Taiwan, Taishan.
Ju-Joan Wong, *National Yunlin University of Science and Technology, Taiwan*; Rungtai Lin, *National Taiwan University of Arts, Taiwan*; Zhe-An Lin, *Chang Gung University, Taiwan*.

S034

User Experience Design and Research in Multinational Companies

Room: Escambia

Chair(s): Paul Fu, *Alibaba.com Inc, United States*; Esin Kiris, *CA Technologies, United States*.

Creating Effective Personas for Product Design: Insights from a Case Study
Frank Guo, *BlackRock, United States*; Sanjay Shamdasani, Bruce Randall, *Spring Studio, United States*.

Mobile Research: Benefits, Applications, and Outlooks
Gloria Chen, *King Brown Partners, Inc., United States*.

A Case Study: Behavior Study of Chinese Users on the Internet and Mobile Internet
Marsha Yang, Hongwei Li, Grace Deng, *YiLe Information Ltd, P.R. China*.

Designing Web Marketing that Works for Users: Finding Best Practices through Evaluation and Conversation
Kate Welker, *Spring Studio, United States*; Frank Guo, *BlackRock, United States*; Sanjay Shamdasani, *Spring Studio, United States*.

Testing Touch: Emulators vs. Devices
Rebecca Baker, Xiaoning Sun, Bob Hendrich, *CA Technologies, United States*.

Heuristic Evaluation and Usability Testing: Case Study
Mahmut Eksioglu, *Bogazici University, Turkey*; Esin Kiris, *CA Technologies, United States*; Burak Capar, Murat Selcuk, Selen Ouzeir, *Bogazici University, Turkey*.

Augmented Cognition

AC S035

Brain Computer Interfaces

Room: Nassau

Chair(s): Peter Brunner, *Wadsworth Center, NYSDOH, United States*.

Welcome and BCI Primer
Jeremy Hill, *Wadsworth Center, NYSDOH, United States*.

Communicating with Functional Near Infrared Imaging
Ian McClendon, *Georgia Institute of Technology, United States*.

The Challenges of Using Scalp-EEG Input Signals for Continuous Device Control
Garett Johnson, Nicholas Waytowich, Dean Krusienski, *Old Dominion University, United States*.

Interface Design Challenge for Brain-Computer Interaction
Jeremy Hill, Peter Brunner, Theresa Vaughan, *Wadsworth Center, NYSDOH, United States*.

The Barriers of Moving Brain-Computer Interface Technology from Bench to Bedside
Eric Sellers, *East Tennessee State University, United States*.

Designing Intuitive Human-Computer Interfaces for BCI and Other Access Methods for Individuals with Severe Physical and Cognitive Impairments
Debra Zeitlin, *Helen Hayes Rehabilitation Hospital, United States*.

Neural Point-and-click Control of Virtual Keyboard Interfaces by an Individual with Tetraplegia in the BrainGate2 Clinical Trial
Daniel Bacher, *Brown University, United States*.

The Mutual Benefits of Combining BCI and HCI Technologies: Learning by Example
Thorsten Zander, *The Max Planck Institute for Biological Cybernetics, Germany*.

Operational Issues in a BCI real-world Environment
Cali Fidopiastis, *University of Alabama, Birmingham, United States*.

The HCI Challenge
Jeremy Hill, *Wadsworth Center, NYSDOH, United States*.

DUXU S036 S037

Design, User Experience, and Usability

S036

Persuasion Design

Room: Lake

Chair(s): Susan Weinschenk, *Human Factors International, United States*.

Clout: The Role of Content in Persuasive Experience
Colleen Jones, *Content Science, United States*.

The Nature of Adaptive Interactions and Potential for Strategic Application
Justin Davis, *Madera Labs, United States*.

All Online Interactions are Social Interactions
Susan Weinschenk, *Human Factors International, United States*.

Persuasive Design: It's Not Just About Selling Stuff
Jeff Horvath, *Human Factors International, United States*.

Designing the Personalized Nostalgic Emotion Value of a Product
Yu-Shan Tseng, Ming-Chyuan Ho, *National Yunlin University of Science and Technology, Taiwan*.

The Essence of Enjoyable Experiences: The Human Needs (A Psychological Needs-Driven Experience Design Approach)
Joonhwan Kim, Sung Park, *SAMSUNG Electronics, Korea*; Marc Hassenzahl, Kai Eckoldt, *Folkwang University of Arts, Germany*.

First Validation of Persuasive Criteria for Designing and Evaluating the Social Influence of User Interfaces: Justification of a Guideline.
Alexandra Nemery, *University Paul Verlaine of Metz / SAP, France*; Eric Brangier, *University Paul Verlaine of Metz, France*; Steve Kopp, *SAP, France*.

S037

Focus on Visual Innovation

Room: Dixie

Chair(s): Michael Renner, *The Basel School of Design, FHNW HGK, Switzerland*.

Image, Imagination, Innovation. How Can we Overcome the Common Ground in the Processes of Visual Design?
Michael Renner, *The Basel School of Design, FHNW HGK, Switzerland*.

Precise Mishandling of the Digital Image Structure
Theodore Davis, *The Basel School of Design, FHNW HGK, Switzerland*.

What You See Is What You Don't Get - Addressing Implications of Information Technology through Design Fiction
Ludwig Zeller, *Royal College of Art, United Kingdom*.

Implied Aesthetics: A Sensor-based Approach towards Mobile Interfaces
Daniel Sauter, *University of Illinois at Chicago, United States*.

Why History Matters - Visual Innovation and the Role of Image Theory in HCI
Margarete Pratschke, *ETH Zurich, Switzerland*.

Visual Innovation through Findings in Perception
Paul Mike Zender, *University of Cincinnati, United States*.

HIMI S038

Human Interface and the Management of Information

Supporting Communication and Collaboration

Room: Madison

Chair(s): Sarah Swierenga, *Michigan State University, United States*.

MoPaCo: Pseudo 3D Video Communication System
Ryo Ishii, Shiro Ozawa, Takafumi Mukouchi, Norihiko Matsuura, *NTT Corporation, Japan*.

The Effects Visual Feedback on Social Behavior during Decision Making Meetings
Merel Brandon, *T-Xchange / University of Twente, Netherlands*; Simon Eskamp, *University of Twente, Netherlands*; Thomas De Groot, *T-Xchange / University of Twente, Netherlands*; Tim Franssen, Bart Van Gennep, Thomas Visser, *University of Twente, Netherlands*.

From Personal to Collaborative Information Management: A Design Science's Approach
Mei Lu, *Samsung Telecommunications America, United States*; Philip Corriveau, *Intel Corporation, United States*.

Real-World User-Centered Design: The Michigan Workforce Background Check System
Sarah Swierenga, *Michigan State University, United States*; Fuad Abujarad, *Yale University, United States*; Toni Dennis, *State of Michigan, United States*; Lori Post, *Yale University, United States*.

Dodging Window Interference to Freely Share Any Off-the-shelf Application among Multiple Users in Co-located Collaboration
Shinichiro Sakamoto, Makoto Nakashima, Tetsuro Ito, *Oita University, Japan*.

Design Effective Voluntary Medical Incident Reporting Systems: a Literature Review
Lei Hua, Yang Gong, *University of Missouri, United States*.

Towards Argument Representational Tools for Hybrid Argumentation Systems
Maria Gonzalez, Sebastian Gottifredi, Alejandro Garcia, *National Council of Scientific and Technical Research (CONICET) and Universidad Nacional del Sur, Argentina*; Guillermo Simari, *Universidad Nacional del Sur, Argentina*.

HCI S039

continues ▶▶

Human-Computer Interaction

Towards Integrating Haptic Experiences: Does Touch Really Matter?

Room: Escambia

Chair(s): Chang Nam, *University of Arkansas, United States*.

What You Feel Is What I DO: A study of dynamic haptic interaction in distributed collaborative virtual environment
Sehat Ullah, *University of Evry, France*; Xianging Liu, *Tokyo Institute of Technology, Japan*; Samir Otmane, *University of Evry, France*; Paul Richard, *University of Angers, France*; Malik Mallem, *University of Evry, France*.

Development of a High Definition Haptic Rendering for Stability and Fidelity
Katsuhito Akahane, Takeo Hamada, *Tokyo Institute of Technology, Japan*; Takehiko Yamaguchi, *University of Angers, France*; Makoto Sato, *Tokyo Institute of Technology, Japan*.

The Effect of Haptic Cues on Working Memory in 3D Menu Selection
Takehiko Yamaguchi, Damien Chamaret, Paul Richard, *University of Angers, France*.

Haptically Enhanced User Interface to Support Science Learning of Visually Impaired
Yueqing Li, Steve Johnson, Chang Nam, *University of Arkansas, United States*.

Analyzing User Behavior within a Haptic System
Steve Johnson, Yueqing Li, Chang Nam, *University of Arkansas, United States*; Takehiko Yamaguchi, *University of Angers, France*.

More than Speed? An Empirical Study of Touchscreens and Body Awareness on an Object Manipulation Task
Rachelle Hippler, Dale Klopfer, Laura Leventhal, G Michael Poor, Brandi Klein, Samuel Jaffee, *Bowling Green State University, United States*.

Usability Testing of the Interaction of Novices with a Multi-touch Table in Semi Public Space
Markus Jokisch, Thomas Bartoschek, Angela Schwering, *University of Muenster, Germany*.

TUESDAY 13:30 - 15:30

HCI

S040

Signal and Image Processing for HCI (I)

Room: **Dixie**

Chair(s): Ping Guo, *Beijing Normal University, P.R. China.*

A Cubic Polynomial Model for Fisheye Camera
Haijiang Zhu, Xiupu Yin, Jinglin Zhou, *Beijing University of Chemical Technology, P.R. China.*

High-quality Fast Image Upsampling Algorithm Based on CUDA
Qingqing Xu, Xin Zheng, *Beijing Normal University, P.R. China*; Jie Chen, *CITIC Guoan Group, P.R. China.*

Face Sketch Synthesis via Multivariate Output Regression
Liang Chang, Mingquan Zhou, *Beijing Normal University, P.R. China*; Xiaoming Deng, *Chinese Academy of Sciences, P.R. China*; Zhongke Wu, *Beijing Normal University, P.R. China*; Yanjun Han, *Chinese Academy of Sciences, P.R. China.*

A Global Optimal Algorithm for Camera Calibration with One-Dimensional Objects
Liang Wang, *Beijing University of Technology, P.R. China*; Fuqing Duan, *Beijing Normal University, P.R. China*; Chao Liang, *Beijing University of Technology, P.R. China.*

LSCM based Non-rigid Registration for Craniofacial Surfaces
Wenkui Xie, Fuqing Duan, Qingqiong Deng, Mingquan Zhou, Zhongke Wu, Liang Chang, *Beijing Normal University, P.R. China.*

Head-pose Recognition for a Game System Based on Nose's Relative Position
Qingjie Zhao, Xiaoming Shi, Yuxia Wang, *Beijing Institute of Technology, P.R. China.*

Experimental Studies of Visual Models in Automatic Image Annotation
Ping Guo, Tao Wan, Jin Ma, *Beijing Normal University, P.R. China.*

S041

Spatial Interaction Design (I)

Room: **Park**

Chair(s): Teng-Wen Chang, *National Yunlin University of Science and Technology, Taiwan.*

mojo iCuisine: The Design and Implementation of an Interactive Restaurant Tabletop Menu
Ting-Han Chen, Hsin-Hou Lin, Yi-Di Yen, *XXtraLab DESIGN Co., Taiwan.*

Designing Poetic Interaction in Space
Yi-Chu Lin, *National Taiwan University of Science and Technology, Taiwan*; Huang-Ming Chang, *Eindhoven University of Technology, Netherlands*; Rung-Huei Liang, *National Taiwan University of Science and Technology, Taiwan.*

The Effort of Social Networking on Social Behavior – Integrating Twitter, Mobile Devices, and Wearable Clothing as an Example
Chenwei Chiang, Kiyoshi Tomimatsu, *Kyushu University, Japan.*

GoCoBa: Interactive Installation Design Applied on Combination of Context and People
Jia-Xuan Zhan, Fan Kuo-Kuang, *National Yunlin University of Science and Technology, Taiwan.*

A Formal Model of Mixed-Initiative Interaction in Design Exploration
Sambit Datta, *Curtin University, Australia*; Michael Hobss, *Deakin University, Australia.*

S042

Gesture-based Interaction (I)

Room: **Manatee**

Chair(s): Dimitris Grammenos, *Foundation for Research & Technology - Hellas (FORTH), Greece.*

Hand Gesture for Taking Self Portrait
Shaowei Chu, Jiro Tanaka, *University of Tsukuba, Japan.*

Gesture Based Automating Household Appliances
Wei Lun Ng, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, *Universiti Putra Malaysia, Malaysia.*

3D-Position Estimation for Hand Gesture Interface Using a Single Camera
Seung-Hwan Choi, Ji-Hyeong Han, Jong-Hwan Kim, *Korea Advanced Institute of Science and Technology (KAIST), Korea.*

Multi-User Pointing and Gesture Interaction for Large Screen Using Infrared Emitters and Accelerometers
Leonardo Angelini, Maurizio Caon, *College of Engineering and Architecture of Fribourg, Switzerland*; Stefano Carrino, *University of Fribourg & College of Engineering and Architecture of Fribourg, Switzerland*; Omar Abou Khaled, Elena Mugellini, *College of Engineering and Architecture of Fribourg, Switzerland.*

Web-based Nonverbal Communication Interface using 3DAgents with Natural Gestures
Toshiya Naka, *Panasonic Corporation, Japan*; Toru Ishida, *Kyoto University, Japan.*

Gesture Identification Based on Zone Entry and Axis Crossing
Ryosuke Aoki, *NTT Corporation, Japan*; Yutaka Karatsu, *Keio University, Japan*; Masayuki Ihara, Atsuhiko Maeda, Minoru Kobayashi, *NTT Corporation, Japan*; Shingo Kagami, *Tohoku University, Japan.*

Musical Skin: A Dynamic Interface for Musical Performance
Heng Jiang, Teng-Wen Chang, *National Yunlin University of Science and Technology, Taiwan*; Cha-Lin Liu, *National Taiwan University of Arts, Taiwan.*

EPCE

Engineering Psychology and Cognitive Ergonomics

S043

Cognitive Issues in Interaction (I)

Room: **Liberty**

Chair(s): Liam Mayron, *Harris Corp., United States*

Personalized Emotional Prediction Method for Real-life Objects Based on Collaborative Filtering
Hyeong-Joon Kwon, Hyeong-Oh Kwon, Kwang-Seok Hong, *Sungkyunkwan University, Korea.*

Differences between Students and Professionals While Using a GPS based GIS in an Emergency Response Study
Rego Granlund, *Santa Anna IT Research Institute, Sweden*; Helena Granlund, *Santa Anna IT Research Institute / Swedish Defence Research Agency, Sweden*; Nils Dahlback, *Linkoping University, Sweden.*

Using Uncertainty to Inform Information Sufficiency in Decision Making
Xiao Dong, Caroline Hayes, *University of Minnesota, United States.*

Interpretation of Metaphors with Perceptual Features Using WordNet
Rini Bhatt, Amitash Ojha, Bipin Indurkhya, *International Institute of Information Technology, India.*

Operational Characteristics Related to Memory in Operating Information Devices with Hierarchical Menu
Norikazu Sasaki, Motoki Shino, Minoru Kamata, *The University of Tokyo, Japan.*

Effects of Paper on Page Turning: Comparison of Paper and Electronic Media in Reading Documents with Endnotes
Hirohito Shibata, Kengo Omura, *Fuji Xerox Co., Ltd., Japan.*

Spatial Tasks on a Large, High-resolution, Tiled Display: A Male Inferiority in Performance with a Mental Rotation Task
Bernt Ivar Olsen, *University of Tromso, Norway*; Bruno Laeng, *University of Oslo, Norway*; Kari-Ann Kristiansen, *University Hospital of Northern Norway, Norway*; Gunnar Hartvigsen, *University of Tromso, Norway.*

UAHCI

S044

Social Inclusion

Room: Palm Beach

Chair(s): Vicki Hanson, *University of Dundee, United Kingdom*.

Social Inclusion Through Digital Engagement
Vicki Hanson, *University of Dundee, United Kingdom*.

Narrating Past to Present: Conveying the Needs and Values of Older People to Young Digital Technology Designers
Elizabeth Valentine, Ania Bobrowicz, *University of Kent, United Kingdom*; Graeme Coleman, Lorna Gibson, Vicki Hanson, *University of Dundee, United Kingdom*; Saikat Kundu, Alison McKay, Raymond Holt, *University of Leeds, United Kingdom*.

Adaptive Interfaces: A Little Learning is a Dangerous Thing
Kyle Montague, Vicki Hanson, Andy Cobley, *University of Dundee, United Kingdom*.

Use of Speech Technology in Real Life Environment
Ruimin Hu, *Towson University, United States*; Shaojian Zhu, *UMBC, United States*; Heidi Feng, *Towson University, United States*; Andrew Sears, *UMBC, United States*.

Collecting an American Sign Language Corpus through the Participation of Native Signers
Pengfei Lu, Matt Huenerfauth, *City University of New York, United States*.

Preliminary Findings of an Ethnographical Research on Designing Accessible Geolocated Services with Older People
Valeria Righi, Guiller Malon, Susan Moler, *Interactive Technologies Group Universitat Pompeu Fabra, Spain*; Sergio Sayago, *University of Dundee, United Kingdom*; Josep Blat, *Interactive Technologies Group Universitat Pompeu Fabra, Spain*.

Extending Predictive Models of Exploratory Behavior to Broader Populations
Shari Trewin, John Richards, Rachel Bellamy, Bonnie John, Cal Swart, *IBM T.J. Watson Research Center, United States*; David Sloan, *University of Dundee, United Kingdom*.

S045

Intelligent Interfaces and Functionality, Adaptation, and Personalization

Room: Taylor

Chair(s): Stefan Carmien, *Tecnalia Research, Spain*.

A Generic OSGi-based Model Framework for Delivery Context Properties and Events
Jaroslav Pullmann, Yehya Mohamad, Carlos Velasco, *Fraunhofer, Germany*; Stefan Carmien, *Tecnalia Research, Spain*.

Some Issues Regarding the Design of Adaptive Interface Generation Systems
Julio Abascal, Amaia Aizpurua, Idoia Cearreta, Borja Gamecho, Nestor Garay-Vitoria, Raul Minon, *University of the Basque Country, Spain*.

Issues in Web Presentation for Cognitive Accessibility
Clayton Lewis, *University of Colorado, United States*.

Inclusive Scenarios to Evaluate an Open and Standards-based Framework that Supports Accessibility and Personalization at Higher Education
Alejandro Rodriguez-Ascaso, Jesus Boticario, Cecile Finat, Elena Del Campo, Mar Saneiro, Eva Alcocer, Emmanuelle Gutierrez y Restrepo, Emanuela Mazzone, *UNED, Spain*.

Patient-Centered Design: Interface Personalization for Individuals with Brain Injury
Elliot Cole, *Institute for Cognitive Prosthetics, United States*.

Using a Visual Assistant to Travel Alone within the City
Yves Lachapelle, Dany Lussier-Desrochers, Martin Caouette, Martin Therrien-Belec, *Universite du Quebec a Trois-Rivieres, Canada*.

Modeling Users for Adaptive Semantics Visualizations
Kawa Nazemi, Dirk Burkhardt, Matthias Breyer, Arjan Kuijper, *Fraunhofer, Germany*.

S046

Multimodal and Multicultural Communicative Agent (MMMCA)

Room: Union

Chair(s): Kristiina Jokinen, *University of Helsinki, Finland*; Matthias Rehm, *Aalborg University, Denmark*; Yukiko Nakano, *Seikei University, Japan*.

Dialog Behaviors across Culture and Group Size
David Herrera, David Novick, *The University of Texas at El Paso, United States*; Dusan Jan, David Traum, *University of Southern California, United States*.

Head Movements, Facial Expressions and Feedback in Danish First Encounters Interactions: a Culture-Specific Analysis
Patrizia Paggio, Costanza Navarretta, *University of Copenhagen, Denmark*.

Learning Culture-Specific Dialogue Models from Non Culture-Specific Data
Kallirroi Georgila, David Traum, *University of Southern California, United States*.

Cultural Difference in Nonverbal Behaviors in Negotiation Conversations: Towards a Model for Culture-adapted Conversational Agents
Fumie Nori, Afia Lipi, Yukiko Nakano, *Seikei University, Japan*.

Intercultural Dynamics of Fist Acquaintance: Comparative Study of Swedish, Chinese and Swedish-Chinese First Time Encounters
Jens Allwood, *University of Gothenburg, Sweden*; Nataliya Lindstrom, *Center SSKKII// SCCIIL, Chalmers and University of Gothenburg, Sweden*; Jia Lu, *University of Gothenburg, Sweden*.

Embedded Cultural Features in the Design of an Accessibility Agent for the Web
Ingrid Teixeira Monteiro, Clarisse Sieckenius De Souza, *PUC - Rio de Janeiro, Brazil*.

S047

Universal Access Methods and Tools

Room: Nassau

Chair(s): Margherita Antona, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

Classifying Interaction Methods to Support Intuitive Interaction Devices for Creating User-Centered-Systems
Dirk Burkhardt, Matthias Breyer, Christian Glaser, Kawa Nazemi, Arjan Kuijper, *Fraunhofer, Germany*.

A Survey on Guiding Logic for Automatic User Interface Generation
Gaurav Dubey, *Pennsylvania State University, United States*.

Search Intention Analysis for User-Centered Adaptive Visualizations
Dirk Burkhardt, Matthias Breyer, Kawa Nazemi, Arjan Kuijper, *Fraunhofer, Germany*.

Visual Mediation Mechanisms for Collaborative Design and Development
Carmelo Ardito, *Universita degli Studi di Bari, Italy*; Barbara Rita Barricelli, *Universita degli Studi di Milano, Italy*; Paolo Buono, Maria Francesca Costabile, Antonio Piccinno, *Universita degli Studi di Bari, Italy*; Stefano Valtolina, Li Zhu, *Universita degli Studi di Milano, Italy*.

Tactics Choice Behaviors Represented in a Programming Language in the Map Tracing Problems
Nobuhito Yamamoto, *University of Tsukuba, Japan*; Syoko Shiroma, *Ehime University, Japan*; Tomoyuki Nishioka, *Tsukuba University of Technology, Japan*.

Exact Compensation of Color-Weakness with Discrimination Threshold Matching
Rika Mochizuki, *NTT Corporation, Japan*; Satoshi Oshima, *Chuo University, Japan*; Reiner Lenz, *Linkoping University, Sweden*; Jinhui Chao, *Chuo University, Japan*.

Supporting Inclusive Design of User Interfaces with a Virtual User Model
Pierre Kirisci, Patrick Klein, Markus Modzelewski, Michael Lawo, *University of Bremen, Germany*; Yehya Mohamad, *Fraunhofer, Germany*; Thomas Fiddian, Chris Bowden, *Royal National Institute for Deaf People, United Kingdom*; Antoinette Fernnell, Joshue O Connor, *National Council for the Blind of Ireland (NCBI), Ireland*.

TUESDAY 13:30 - 15:30

VMR S048

Virtual and Mixed Reality

Human Behaviour in Virtual and Augmented Environments

Room: Lexington

Chair(s): Nadia Garcia-Hernandez, *Istituto Italiano di Tecnologia (IIT), Italy*

Intercepting Virtual Ball in Immersive Virtual Environment
Massimiliano Valente, Davide Sobrero, Andrea Brogni, Darwin Caldwell, *Istituto Italiano di Tecnologia (IIT), Italy*.

Evaluating Human-Robot Interaction During a Manipulation Experiment Conducted in Immersive Virtual Reality
Mihai Duguleana, Grigore Florin Barbuceanu, Gheorghe Mogan, *Transilvania University of Brasov, Romania*.

An Indirect Measure of the Implicit Level of Presence in Virtual Environments
Steven Nunnally, *University of Pittsburgh, United States*; Durell Bouchard, *Roanoke College, United States*.

Whole Body Interaction using the Grounded Bar Interface
Bong-gyu Jang, HyunSeok Yang, Gerard Kim, *Korea University, Korea*.

Use of Neurophysiological Metrics within a Real and Virtual Perceptual Skills Task to Determine Optimal Simulation Fidelity Requirements
Jack Vice, Anna Skinner, *Anthrotronix, Inc., United States*; Chris Berka, *Advanced Brain Monitoring, Inc., United States*; Lauren Reinerman-Jones, Daniel Barber, *University of Central Florida, United States*; Nicholas Pojman, Veasna Tan, *Advanced Brain Monitoring, Inc., United States*; Marc Sebrechts, *Catholic University of America, United States*; Corinna Lathan, *Anthrotronix, Inc., United States*.

Effectiveness of a Tactile Display for Providing Orientation Information of 3d-patterned Surfaces
Nadia Garcia-Hernandez, Ioannis Sarakoglou, Nikos Tsagarakis, Darwin Caldwell, *Istituto Italiano di Tecnologia (IIT), Italy*.

Synchronous vs. Asynchronous Control for Large Robot Teams
Huadong Wang, Andreas Kolling, *University of Pittsburgh, United States*; Nathan Brooks, *Carnegie Mellon University, United States*; Michael Lewis, *University of Pittsburgh, United States*; Katia Sycara, *Carnegie Mellon University, United States*.

IDGD S049

Internationalization, Design and Global Development

Designing "Friendship" into Modern Products (II)

Room: Jade

Chair(s): Rungtai Lin, *National Taiwan University of Arts, Taiwan*.

Friendly Design and Interaction Relationship Study on Sitou Tea-Sipping Design of Cultural Product
Chi-Hsiung Chen, Being-Chenem Chen, *National Yunlin University of Science and Technology, Taiwan*.

An Exploration of the Cultural Product Design of National Palace Museum from Qualia Viewpoint
Mei-Hsien Huang, *National Taiwan University of Arts, Taiwan*; Wanyu Houng, *National Palace Museum, Taiwan*; Rungtai Lin, *National Taiwan University of Arts, Taiwan*.

The Effect of Music on Spatial Ability
Hanyu Lin, *National Kaohsiung Normal University, Taiwan*; Hui Yueh Hsieh, *Ming Chi University of Technology, Taiwan*.

A Study of Producing Ceramic Glaze Utilizing Shihmen Reservoir Silt
Chi-Chang Lu, Po-Hsien Lin, *National Taiwan University of Arts, Taiwan*.

Identifying the Features of Friendly User Interfaces from Emotional Perspectives
Li-Chieh Chen, Po-Ying Chu, Yun-Maw Cheng, *Tatung University, Taiwan*.

Design for Aesthetic Experience
Po-Hsien Lin, Chi-Chang Lu, *National Taiwan University of Arts, Taiwan*; Mo-Li Yeh, *MingDao University, Taiwan*.

OCSC S050

Online Communities and Social Computing

Electronic Business

Room: Hamilton

Chair(s): June Wei, *University of West Florida, United States*.

E-Business Solutions in the Cable TV Industry
Viorica Harrison, June Wei, *University of West Florida, United States*.

Business-to-Business Solutions for the Cosmetic Industry
Manami Koblentz, June Wei, *University of West Florida, United States*.

An M-Pill Framework in the Electronic Healthcare
Nien Chieh Lee, Hi Tran, Albert Yin, June Wei, *University of West Florida, United States*.

Handshake: A Case Study for Exploring Business Networking for the Enterprise, Inside and Out
Laurie Damianos, Donna Cuomo, Stan Drozdetski, *The MITRE Corporation, United States*.

Productivity Improvement by Using Social-Annotations about Design Intent in CAD Modelling Process
Gerardo Alducin-Quintero, Manuel Contero, *Universidad Politecnica de Valencia, Spain*; Jorge Martin-Gutierrez, *Universidad de La Laguna, Spain*; David Guerra-Zubiaga, *Centro de Ingenieria y Desarrollo Industrial (CIDESI), Mexico*; Michael Johnson, *Texas A&M University, United States*.

Measuring the Success of On-line Communities in an Enterprise Networking Tool
Lester Holtzblatt, Laurie Damianos, *The MITRE Corporation, United States*.

AC S051

Augmented Cognition

Computational Neuroscience & Predicting Cognitive & Affective States

Room: Lake

Chair(s): Chris Forsythe, *Sandia National Laboratories, United States*.

Mapping Cognitive Attractors onto the Dynamic Landscapes of Teamwork
Ron Stevens, *UCLA IMMEX Project, United States*; Jamie Gorman, *Texas Tech University, United States*.

A Dynamic Approach to the Physiological-Based Assessment of Resilience to Stressful Conditions
Michael Zotov, *Saint-Petersburg State University, Russia*; Chris Forsythe, *Sandia National Laboratories, United States*; Alexey Voyt, Inga Akhmedova, Vladimir Petrukovich, *Saint-Petersburg State University, Russia*.

The Frustration Status and Noise Proof Feature during Perception of the Auditory Images
Sergey Lytaev, Yuliaj Surovitskaj, *Saint Petersburg State Pediatric Medical Academy, Russia*.

Using Computational Modeling to Assess Use of Cognitive Strategies
Michael Haass, Laura Matzen, *Sandia National Laboratories, United States*.

Brain Signatures of Team Performance
Silke Dodel, *Florida Atlantic University, United States*; Joseph Cohn, *Office of Naval Research, United States*; Jochen Mersmann, *CodeBox Computerdienste GmbH, Germany*; Phan Luu, *Electrical Geodesics, Inc., United States*; Chris Forsythe, *Sandia National Laboratories, United States*; Viktor Jirsa, *Florida Atlantic University, United States*.

Analyzing Neural Correlates of Attentional Changes during the Exposure to Virtual Environments: Application of Transcranial Doppler Monitoring
Beatriz Rey, *Universidad Politecnica de Valencia, Spain*; Vera Parkhutik, Jose Tembl, *Hospital Universitari La Fe, Spain*; Mariano Alcaniz, *Universidad Politecnica de Valencia, Spain*.

DHM S052

Digital Human Modeling

Posture and Comfort

Room: **Fulton**

Chair(s): Tim Marler, *The University of Iowa, United States*.

Predicting Support Reaction Forces for Standing and Seated Tasks with Given Postures-A Preliminary Study
Brad Howard, Jingzhou (James) Yang, *Texas Tech University, United States*.

Research on Digital Human Model Used in Human Factor Simulation and Evaluation of Load Carriage Equipment
Dayong Dong, *Snanghai Jiaotong University, P.R. China*; Lijing Wang, Xiugan Yuan, *Beihang University, P.R. China*; Shan Fu, *Shanghai Jiaotong University, P.R. China*.

An Alternative Formulation for Determining Weights of Joint Displacement Objective Function in Seated Posture Prediction
Qiuling Zou, *Texas Tech University, United States*; Qinghong Zhang, *Northern Michigan University, United States*; Jingzhou (James) Yang, Robyn Boothby, Jared Gragg, Aimee Cloutier, *Texas Tech University, United States*.

Posture Reconstruction Method for Mapping Joint Angles of Motion Capture Experiments to Simulation Models
Jared Gragg, Jingzhou (James) Yang, Robyn Boothby, *Texas Tech University, United States*.

Contact Area Determination between a N95 Filtering Facepiece Respirator and a Headform
Zhipeng Lei, Jingzhou (James) Yang, *Texas Tech University, United States*.

HCD S053

Human Centered Design

Novel Design Approaches

Room: **Empire**

Chair(s): Masahiro Hori, *Kansai University, Japan*

Knowledge Based Design of User Interface for Operating an Assistive Robot
Rebekah Hazlett-Knudsen, Melissa Smith, Aman Behal, *University of Central Florida, United States*.

Towards Compositional Design and Evaluation of Preference Elicitation Interfaces
Alina Pommeranz, Pascal Wiggers, Catholijn Jonker, *Delft University of Technology, Netherlands*.

A Design-Supporting Tool for Implementing the Learning-Based Approach: Accommodating Users' Domain Knowledge into Design Processes
Jung-Min Choi, *Seoul National University, Korea*; Keiichi Sato, *Illinois Institute of Technology, United States*.

A Three-Fold Integration Framework to Incorporate User-Centered Design into Agile Software Development
Shah Rukh Humayoun, *SAPIENZA - Universita di Roma, Italy*; Yael Dubinsky, *IBM Research – Haifa, Israel*; Tiziana Catarci, *SAPIENZA - Universita di Roma, Italy*.

Quantitative Evaluation of the Effectiveness of Idea Generation in the Wild
Lassi Liikkanen, *Helsinki Institute for Information Technology (HIIT), Finland*; Matti Hamalainen, *Aalto University, Finland*; Anders Haggman, *Massachusetts Institute of Technology (MIT), United States*; Tua Bjorklund, Mikko Koskinen, *Aalto University, Finland*.

DUXU S054 / S055

Design, User Experience, and Usability

User Experience in Online Communication

Room: **Jackson**

Chair(s): Lorenzo Cantoni, Alessandro Inversini, *Universita della Svizzera Italiana, Switzerland*.

Context-Aware Places of Interest Recommendations for Mobile Users
Linas Baltrunas, *Free University of Bozen Bolzano, Italy*; Bernd Ludwig, *University of Erlangen-Nurnberg, Germany*; Stefan Peer, Francesco Ricci, *Free University of Bozen-Bolzano, Italy*.

Connecting Usages with Usability Analysis through the User Experience Risk Assessment Model: A Case Study in the Tourism Domain
Alessandro Inversini, Lorenzo Cantoni, *Universita della Svizzera Italiana, Switzerland*; Davide Bolchini, *Indiana University, United States*.

Challenges and Opportunities of Hotel Online Booking in China
Wei Ding, *Marriott, United States*.

A Systematic Evaluation of the Communicability of Online Privacy Mechanisms with Respect to Communication Privacy Management
Periambal Coopamootoo, Debi Ashenden, *Cranfield University, United Kingdom*.

How to Improve User Experience in Mobile Social Networking: A User-Centered Study with Turkish Mobile Social Network Site Users
Ozgurol Ozturk, Kerem Rizvanoglu, *Galatasaray University, Turkey*.

Peru Digital: Approaching Interactive Digital Storytelling and Collaborative Interactive Web Design through Digital Ethnography, HCI, and Digital Media
Si Jung «Jun» Kim, Natalie Underberg, *University of Central Florida, United States*.

Globalization / Localization of DUXU

Room: **Sarasota**

Chair(s): Rudiger Heimgartner, *Intercultural User Interface Consulting (IUIC), Germany*.

Towards Future Methods to Take into Account Cross-cultural Differences in Design: An Example with the "Expert Community Staff" (ECS)
Jerome Dinet, Robin Vivian, Eric Brangier, *University Paul Verlaine of Metz, France*.

A Culturally Driven Approach for the Development of Innovative User Interface Design Concepts
Andre Liem, *Norwegian University of Science and Technology, Norway*.

Guidelines on Website Design and Colour Selection for International Acceptance
Martin Maguire, *Loughborough University, United Kingdom*.

Leading International UX Research Projects
Jakob Biesterfeldt, *UID (User Interface Design), Germany*; Miranda Capra, *HumanCentric, United States*.

Conformity with User Expectations on the Web: Are there Cultural Differences for Design Principles?
Andreas Auinger, Anna Aistleithner, Harald Kindermann, *Upper Austria University of Applied Sciences, Austria*; Andreas Holzinger, *Medical University of Graz, Austria*.

Empathy as a Key Factor for Successful Intercultural HCI Design
Rudiger Heimgartner, *Intercultural User Interface Consulting (IUIC), Germany*; Lutz-Wolfgang Tiede, Helmut Windl, *Continental Automotive GmbH, Germany*.

Company Culture Audit to Improve Development Team's Collaboration, Communication, and Cooperation
Emilie Gould, *State University of NY at Albany, United States*; Aaron Marcus, *Aaron Marcus and Associates, Inc. (AM+A), United States*.

TUESDAY 13:30 - 15:30

Parallel Sessions

EHAWC S056

Ergonomics and Health Aspects of Work with Computers

Light and Display

Room: **Jackson**

Chair(s): Oliver Stefani, *Fraunhofer, Germany*.

Multi-Resolution-Display System for Virtual Reality Setups
Jurgen Gruninger, *German Research Center for Artificial Intelligence (DFKI) / Intel Visual Computing Institute, Germany*; Hilko Hoffmann, *German Research Center for Artificial Intelligence (DFKI), Germany*; Uwe Kloos, *Reutlingen University, Germany*; Jens Kruger, *DFKI / Intel Visual Computing Institute / Cluster of Excellence Multimodal Computing & Interaction / SCI Institute, Germany*.

LED Office Lighting to Promote Performance and Well-being
Katrin Moller, *Kompetenzzentrum Licht GmbH, Austria*; Vincent Grote, *Human Research GmbH, Austria*; Katharina Keller, *Zumtobel Lighting, Austria*; Dieter Lorenz, *Fachhochschule Giessen-Friedberg, Germany*; Maximilian Moser, *Medical University of Graz, Austria*; Tran Quoc Khanh, *Technical University of Darmstadt, Germany*.

Changing Color over Time
Dragan Sekulovski, Ingrid Vogels, Ramon Clout, Malgorzata Perz, *Philips Research Europe, Netherlands*.

SmartHeliosity: Emotional Ergonomics Through Colored Light
Oliver Stefani, *Fraunhofer, Germany*; Milind Mahale, *Stuttgart State Academy of Art and Design, Germany*; Achim Pross, Matthias Bues, *Fraunhofer, Germany*.

A Study of Vision Ergonomic of LED Display Signs on Different Environment Illuminance
Jeih-Jang Liou, Li-Lun Huang, Chih-Fu Wu, Chih-Lung Yeh, Yung-Hsiang Chen, *Tatung University, Taiwan*.

Measuring Corrective Reaction Time with the Intermittent Illumination Model
Jui-Feng Lin, *Yuan Ze University, Taiwan*; Colin Drury, *State University of NY at Buffalo, United States*; Chin-Mei Chou, Yu-De Lin, Yi-Quan Lin, *Yuan Ze University, Taiwan*.

HIMI S057

Human Interface and the Management of Information

Novel Devices and Techniques for Interacting with Information

Room: **Dixie**

Chair(s): Martin Klima, *Czech Technical University in Prague, Czech Republic*

Comfortable Design of Task-Related Information Displayed Using Optical See-Through Head-Mounted Display
Kazuhiro Tanuma, *Keio University, Japan*; Tomohiro Sato, Makoto Nomura, *Brother Industries, Ltd., Japan*; Miwa Nakanishi, *Keio University, Japan*.

Big Fat Wand: A Laser Projection System for Information Sharing in a Workspace
Toru Takahashi, Takao Terano, *Tokyo Institute of Technology, Japan*.

Vector Keyboard for Android Platform-based Devices
Martin Klima, Pavel Slavik, *Czech Technical University in Prague, Czech Republic*.

A Comparison between Single and Dual Monitor Productivity and the Effects of Window Management Styles on Performance
Alex Stegman, *Federal Aviation Administration, United States*; Chen Ling, Randa Shehab, *University of Oklahoma, United States*.

Design of Vibration Alert Interface Based on Tactile Adaptation Model to Vibration Stimulation
Yuki Mori, Takayuki Tanaka, Shun'ichi Kaneko, *Hokkaido University, Japan*.

What Maps and What Displays for Remote Situation Awareness and ROV Localization?
Ryad Chellali, Khelifa Baizid, *Istituto Italiano di Tecnologia (IIT), Italy*.

Object and Scene Recognition Using Color Descriptors and Adaptive Color KLT
Volkan Bagci, Mariofanna Milanova, *University of Arkansas at Little Rock, United States*; Roumen Kountchev, *Technical University of Sofia, Bulgaria*; Roumiana Kountcheva, Vladimir Todorov, *T&K Engineering Co., Bulgaria*.

HIMI S058

Education and Training

Room: **Lexington**

Chair(s): Alan Chan, *City University of Hong Kong, Hong Kong*.

Transforming a Standard Lecture into a Hybrid Learning Scenario
Hans-Martin Pohl, Jan-Torsten Milde, Jan Lingelbach, *Fulda University of Applied Sciences, Germany*.

Learner-Centered Methodology for Designing and Developing Multimedia Simulation for Biology Education
Chi-Cheng Lin, *Winona State University, United States*; Mark Bergland, Karen Klyczek, *University of Wisconsin – River Falls, United States*.

Development of a Tracking Sound Game for Exercise Support of Visually Impaired
Yoshikazu Ikegami, Keita Ito, Hironaga Ishii, Michiko Ohkura, *Shibaura Institute of Technology, Japan*.

Developing Optimum Interface Design for On-screen Chinese Proofreading Tasks
Alan Chan, *City University of Hong Kong, Hong Kong*; Joey Chung Yin So, *Purdue University, United States*; Steve Ngai Hung Tsang, *City University of Hong Kong, Hong Kong*.

Enhancing English Learning Website Content and User Interface Functions Using Integrated Quality Assessment
Dylan Sung, *Chung Yuan Christian University, Taiwan*.

Visual Programming of Location-Based Services
Antonio Bottaro, *SOGEI Spa, Italy*; Enrico Marino, Franco Milicchio, Alberto Paoluzzi, *Roma Tre University, Italy*; Maurizio Rosina, *SOGEI Spa, Italy*; Federico Spini, *Roma Tre University, Italy*.

HCI S059

Human-Computer Interaction

Facial Gesture Recognition and Gaze Tracking

Room: **Madison**

Chair(s): Csaba Antonya, *Transilvania University of Brasov, Romania*.

Face Recognition using Local Graph Structure (LGS)
Eimad Eldin Abdu Abusham, Housam Khalifa Bashier, *Multimedia University, Malaysia*.

Facial Expression Recognition using AAMICPF
Jun-Sung Lee, Chi-Min Oh, Chil-Woo Lee, *Chonnam National University, Korea*.

Facial Expression Recognition for Learning Status Analysis
Mau-Tsuen Yang, Yi-Ju Cheng, Ya-Chun Shih, *National Dong-Hwa University, Taiwan*.

Head-Computer Interface: A Multimodal Approach to Navigate Through Real and Virtual Worlds
Francesco Carrino, *University of Fribourg & College of Engineering and Architecture of Fribourg, Switzerland*; Julien Tscherrig, Elena Mugellini, Omar Abou Khaled, *College of Engineering and Architecture of Fribourg, Switzerland*; Rolf Ingold, *University of Fribourg, Switzerland*.

Eye-gaze Detection by Image Analysis Under Natural Light
Kiyohiko Abe, *Kanto Gakuin University, Japan*; Shoichi Ohi, Minoru Ohyama, *Tokyo Denki University, Japan*.

Attentive User Interface for Interaction within Virtual Reality Environments based on Gaze Analysis
Grigore Florin Barbuceanu, Csaba Antonya, Mihai Duguleana, *Transilvania University of Brasov, Romania*; Zoltan Rusak, *Delft University of Technology, Netherlands*.

Manual and Accelerometer Analysis of Head Nodding Patterns in Goal-oriented Dialogues
Masashi Inoue, *Yamagata University, Japan*; Toshio Irino, *Wakayama University, Japan*; Nobuhiro Furuyama, *National Institute of Informatics, Japan*; Ryoko Hanada, Takako Ichinomiya, *Kyoto University of Education, Japan*; Hiroyasu Massaki, *Sokendai, Japan*.

S060

Brain Interfaces and Electromyography

Room: **Park**

Chair(s): Giuseppe Andreoni, *Politecnico di Milano, Italy*.

A Hybrid Brain-Computer Interface for Smart Home Control
Gunter Edlinger, Clemens Holzner, Christoph Guger, *g.tec medical engineering GmbH and Guger Technologies OG, Austria*.

Psychometric Evaluation with Brain-Computer Interface
Paolo Perego, *Politecnico di Milano, Italy*; Anna Carla Turconi, Chiara Gagliardi, *IRCCS E. Medea, Italy*; Giuseppe Andreoni, *Politecnico di Milano, Italy*.

Uni-model Human System Interface using sEMG
Srinivasan Jayaraman, *TATA Consultancy Services, Ltd., India*; Venkatesh Balasubramanian, *IIT-Madras, India*.

Spectral Subtraction based Emotion Recognition Using EEG
Jin-Hong Min, Hyeong-Oh Kwon, Kwang-Seok Hong, *Sungkyunkwan University, Korea*.

Low Power Wireless EEG Headset for BCI Applications
Shrishail Patki, Bernard Grundlehner, *Holst Center/Imec-NL, Netherlands*; Toru Nakada, *Panasonic Corporation, Netherlands*; Julien Penders, *Holst Center/Imec-NL, Netherlands*.

S061

Advanced HCI Applications

Room: **Fulton**

Chair(s): Lawrence Henschen, *Northwestern University, United States*.

Design of Shadows on the OHP Metaphor-based Presentation Interface which Visualizes a Presenter's Actions
Yuichi Murata, *University of Tsukuba, Japan*; Kazutaka Kurihara, *National Institute of Advanced Industrial Science & Technology (AIST), Japan*; Toshio Mochizuki, *Senshu University, Japan*; Buntarou Shizuki, Jiro Tanaka, *University of Tsukuba, Japan*.

Evaluation of User Support of a Hemispherical Sub-Display with GUI Pointing Functions
Shinichi Ike, Saya Yokoyama, Yuya Yamanishi, Naohisa Matsuuchi, *Kochi National College of Technology, Japan*; Kazunori Shimamura, *Kochi University of Technology, Japan*; Takumi Yamaguchi, Haruya Shiba, *Kochi National College of Technology, Japan*.

Assessing the Effect of a Power-Flow Gauge on Driving Behaviors Affecting Energy Consumption
Sang-Hwan Kim, *University of Michigan - Dearborn, United States*; Heramb Dandekar, *Chrysler Group LLC., United States*; Edgar Camez, *Ford Motor Company, United States*; Heather Harrelson, *University of Michigan - Dearborn, United States*.

An Analytical Alarm Flood Reduction to Reduce Operator's Workload
Jens Folmer, Dorothea Pantforder, Birgit Vogel-Heuser, *Technische Universitat Munchen, Germany*.

The Virtual Workplace of a Mobile Employee – How Does Vischer`s Model Function in Identifying Physical, Functional and Psychosocial Fit?
Ursula Hyrkkanen, *Turku University of Applied Sciences, Finland*; Suvi Nenonen, *Aalto University / Helsinki University of Technology, Finland*.

The H-Metaphor as an example for Cooperative Vehicle Driving
Daniel Damboeck, Martin Kienle, Klaus Bengler, Heiner Bubb, *Technische Universitat Munchen, Germany*.

A Proposal of an Interactive Music Composition System using Gibbs Sampler
Akira Shirai, Tadahiro Taniguchi, *Ritsumeikan University, Japan*.

EPCE S062

Engineering Psychology and Cognitive Ergonomics

Cognitive Issues in Interaction (II)

Room: **Jade**

Chair(s): Rego Granlund, *Santa Anna IT Research Institute, Sweden*

Rule Fragmentation in the Airworthiness Regulations: A Human Factors Perspective
Don Harris, *HFI Solutions Ltd, United Kingdom*.

The Number of Trials with Target Affects the Mental Models: Have Users' Mental Models of Search Engines Improved in the Last Ten Years?
Sifiso Mlilo, Andrew Thatcher, *University of the Witwatersrand, South Africa*.

Modeling Visual Attention for Rule-based Usability Simulations of Elderly Citizen
Aaron Russ, *German Research Center for Artificial Intelligence (DFKI), Germany*.

Preferred Temporal Characteristics of an Advance Notification System for Autonomous Powered Wheelchair
Takuma Ito, Minoru Kamata, *The University of Tokyo, Japan*.

Kansei Evaluation of HDR Color Images with Different Tone Curves and Sizes - Foundational Investigation of Difference between Japanese and Chinese -
Tomoharu Ishikawa, Yunge Guan, Yi-Chun Chen, *Utsunomiya University, Japan*; Hisashi Oguro, *Toppan Printing Co., Ltd., Japan*; Masao Kasuga, Miyoshi Ayama, *Utsunomiya University, Japan*.

Information Searching on the Web: the Cognitive Difficulties Experienced by Older Users in Modifying Unsuccessful Information Searches
Aline Chevalier, *Universite de Toulouse, France*; Aurelie Dommes, *IFSTTAR, France*; Jean-Claude Marquie, *Universite de Toulouse, France*.

Template for Website Browsing
Fong-Ling Fu, *National Chengchi University, Taiwan*; Chiu Hung Su, *Hwa Hsia Institute of Technology, Taiwan*. **Low Prevalence Effect**
Fan Yang, Xianghong Sun, Kan Zhang, Biyun Zhu, *Chinese Academy of Sciences, P.R. China*.

Applied Cognitive Ergonomics Design Principles for Fighter Aircraft
Jens Alfredson, Johan Holmberg, Rikard Andersson, Maria Wikforss, *Saab, Sweden*.

Exploring the Relationship among Dimensions of Flight Comprehensive Capabilities Based on SEM
Ruishan Sun, Yang Li, *Civil Aviation University of China, P.R. China*.

Analysis of Mental Workload during En-route Air Traffic Control Task Execution based on Eye-Tracking Technique
Caroline Martin, *Universite de Toulouse / DGAC, DTI R&D, France*; Julien Cegarra, *Universite de Toulouse, France*; Philippe Averty, *DGAC, DTI R&D, France*.

UAHCI S063

continues ▶▶

Universal Access in Human-Computer Interaction

Universal Access in Practice

Room: **Palm Beach**

Chair(s): Simeon Keates, *University of Abertay Dundee, United Kingdom*; Ray Adams, *Middlesex University, United Kingdom*.

Using Motion-Sensing Remote Controls with Older Adults
Thomas von Bruhn Hinne, *IT University of Copenhagen, Denmark*; Simeon Keates, *University of Abertay Dundee, United Kingdom*.

The Barriers to and Benefits of Use of ICT for People with Visual Impairment
Kristin Fuglerud, *Norwegian Computing Center, Norway*.

A study of Accessibility Requirements for Media Players on the Web
Lourdes Moreno, Maria Gonzalez, Paloma Martinez, Ana Iglesias, *Universidad Carlos III de Madrid, Spain*.

A Method to Automate the Ranking of Web Pages According to User Defined Accessibility Ratings
Alice Good, *University of Portsmouth, United Kingdom*.

Examining the Current State of Group Support Accessibility - A Focus Group Study
John Schoeberlein, Yuanqiong Wang, *Towson University, United States*.

An Investigation of a Personas-based Model Assessment for Experiencing User-centred Design
Wen Cing-Yan Nivala, *De Montfort University, United Kingdom*; De-Lai Men, *South China University of Technology, P.R. China*; Tin-Kai Chen, *Shu-Te University, Taiwan*; Robert Chen, *De Montfort University, United Kingdom*.

Evaluation of Expert Systems: The Application of a Reference Model to the Usability Parameter
Paula Miranda, *Polytechnic Institute of Setubal (IPS), Portugal*; Pedro Isaias, *Universidade Aberta, Portugal*; Manuel Crisostomo, *Universidade de Coimbra, Portugal*.

TUESDAY 16:00 - 18:00

Parallel Sessions

TUESDAY 16:00 - 18:00

UAHCI S064

Design Access in Ergonomics and Interaction

Room: Hamilton

Chair(s): Fong-Gong Wu, *National Cheng Kung University, Taiwan.*

Use-state Analysis to Find Domains to Be Re-designed
Masami Maekawa, *Sosa Design Inc. / Wakayama University, Japan*; Toshiki Yamaoka, *Wakayama University, Japan.*

Modeling the Role of Empathic Design Engaged Personas: An Emotional Design Approach
Robert Chen, Wen Cing-Yan Nivala, Chien-Bang Chen, *De Montfort University, United Kingdom.*

Digitizing Interaction: the Application of Parameter-Oriented Design Methodology to the Teaching/ Learning of Interaction Design
Shu-Wen Tzeng, *Auburn University, United States.*

Using Interface Design with Low-cost Interactive Whiteboard Technology to Enhance Learning for Children
Chien-Yu Lin, *National University of Tainan, Taiwan*; Fong-Gong Wu, *National Cheng Kung University, Taiwan*; De-Shiung Chen, *National Tainan School for Hearing Impaired, Taiwan*; Yan-Jin Wu, *National University of Tainan, Taiwan*; Kenendy Huang, *Ta-Nai Elementary School, Taiwan*; Chia-Pei Liu, *Municipal Jinsyue Elementary School, Taiwan*; Shu-Ying Chou, *Tainan Municipal Heshun Elementary School, Taiwan.*

The Relationships between Morphology and Work for the Nursing Performance of Hand Controls in Emergency Surgery
Chao-Yuan Tseng, Fong-Gong Wu, *National Cheng Kung University, Taiwan.*

Observe the User Interactive Behavior with a Large Multi-Touch Display in Public Space
Chien-Hsu Chen, Hsiao-Mei Hung, I-Jui Lee, Yu-Wen Chen, Fong-Gong Wu, *National Cheng Kung University, Taiwan.*

A Study on An Usability Measurement Based on The Mental Model
Yuki Yamada, Keisuke Ishihara, Toshiki Yamaoka, *Wakayama University, Japan.*

S065

Distributed Intelligence and the Web

Room: Lake

Chair(s): Pier Luigi Emiliani, *Consiglio Nazionale delle Ricerche (CNR), Italy.*

Adaptations Based on Ontology Evolution as a Mean to Exploit Collective Intelligence
Laura Burzagli, Francesco Gabbanini, Pier Luigi Emiliani, *Consiglio Nazionale delle Ricerche (CNR), Italy.*

GeoDrinking: How to Extract Value from an Extended Social Wine Drinking Experience
Alessandro Marcengo, *Telecom Italia, Italy*; Amon Rapp, *Telecom Italia / Universita di Torino / "Progetto Lagrange, Fondazione C.R.T.", Italy.*

Technology Support via Telephone – to Elderly and People with Disability
Lars Johansson, Claes Tjader, *Swedish Institute for Assistive Technology (SIAT), Sweden.*

Virtual Structured Dialogic Design as Tool for Analysis of Threats before Implementing European Dialogues Aiming to Identify R&D Gaps in Assistive ICT
Yiannis Laouris, Georgina Siitta, *Cyprus Neuroscience & Technology Institute (CNTI), Cyprus*; Patrick Roe, *Ecole Polytechnique Federale de Lausanne, Switzerland*; Pier Luigi Emiliani, *Consiglio Nazionale delle Ricerche (CNR), Italy*; Aleco Christakis, *Cyprus Neuroscience & Technology Institute (CNTI), Cyprus.*

An Intelligent Task Assignment and Personalization System for Students' Online Collaboration
Asterios Leonidis, George Margetis, Margherita Antona, Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece.*

Creating a Global Public Inclusive Infrastructure
Gregg Vanderheiden, *University of Wisconsin-Madison, United States*; Jutta Treviranus, *OCAD University, Canada.*

Virtual User Concept for Inclusive Design of Consumer Products and User Interfaces
Yehya Mohamad, Carlos Velasco, Jaroslav Pullmann, *Fraunhofer, Germany*; Michael Lawo, Pierre Kirisci, *University of Bremen, Germany.*

VMR S066

Virtual and Mixed Reality

3D Technology for HMD and LCD as a Human Interface

Room: Escambia

Chair(s): Masaru Miyao, *Nagoya University, Japan*; Sina Fateh, *United States.*

Stereoscopic Vision Induced by Parallax Images on HMD and its Influence on Visual Functions
Satoshi Hasegawa, *Nagoya Bunri University, Japan*; Akira Hasegawa, *Nagoya University, Japan*; Masako Omori, *Kobe Women's University, Japan*; Hiromu Ishio, *Nagoya University, Japan*; Hiroki Takada, *University of Fukui, Japan*; Masaru Miyao, *Nagoya University, Japan.*

Comparison in Degree of the Motion Sickness Induced by a 3-D Movie on an LCD and an HMD
Hiroki Takada, *University of Fukui, Japan*; Yasuyuki Matsuura, *Nagoya University, Japan*; Masumi Takada, *Aichi University of Medicine, Japan*; Masaru Miyao, *Nagoya University, Japan.*

Simultaneous measurement of lens accommodation and convergence to real objects
Tomoki Shiomi, Hiromu Ishio, Hiroki Hori, *Nagoya University, Japan*; Hiroki Takada, *University of Fukui, Japan*; Masako Omori, *Kobe Women's University, Japan*; Satoshi Hasegawa, *Nagoya Bunri University, Japan*; Shohei Matsunuma, *Nagoya Industrial Science Research Institute, Japan*; Akira Hasegawa, Tetsuya Kanda, Masaru Miyao, *Nagoya University, Japan.*

Comparison of Accommodation and Convergence by Simultaneous Measurements during 2D and 3D Vision Gaze
Hiroki Hori, Tomoki Shiomi, Tetsuya Kanda, Akira Hasegawa, Hiromu Ishio, Yasuyuki Matsuura, *Nagoya University, Japan*; Masako Omori, *Kobe Women's University, Japan*; Hiroki Takada, *University of Fukui, Japan*; Satoshi Hasegawa, *Nagoya Bunri University, Japan*; Masaru Miyao, *Nagoya University, Japan.*

Effect of Weak Hyperopia on Stereoscopic Vision
Masako Omori, *Kobe Women's University, Japan*; Asei Sugiyama, Hiroki Hori, Tomoki Shiomi, Tetsuya Kanda, Akira Hasegawa, Hiromu Ishio, *Nagoya University, Japan*; Hiroki Takada, *University of Fukui, Japan*; Satoshi Hasegawa, *Nagoya Bunri University, Japan*; Masaru Miyao, *Nagoya University, Japan.*

Visibility Experiment and Evaluation of 3D Character Representation on Mobile Displays
Hiromu Ishio, *Nagoya University, Japan.*

IDGD S067

Internationalization, Design and Global Development

Human Factors and Control of Complex Systems

Room: Manatee

Chair(s): Qin Gao, Zhizhong Li, *Tsinghua University, P.R. China.*

Driving Distraction Analysis by ECG Signals: an Entropy Analysis
Lu Yu, Xianghong Sun, Kan Zhang, *Chinese Academy of Sciences, P.R. China.*

Toward Understanding the Relationship between Task Complexity and Task Performance
Peng Liu, Zhizhong Li, *Tsinghua University, P.R. China.*

Attribute Description Service for Large-Scale Networks
Donald Kline, John Quan, *University of Alaska Fairbanks, United States.*

The Application of Human Models in the Thermal Comfort Assessment of Fighter Plane's Cockpit
Haifeng Shen, *Beijing University of Aeronautics & Astronautics, P.R. China.*

Application of Human Modeling in Multi-Crew Cockpit Design
Xiaohui Sun, Feng Gao, Xiugan Yuan, Jingquan Zhao, *Beihang University, P.R. China.*

Accommodating Both Expert Users and Novice Users in One Interface by Utilizing Multi-Layer Interface in Complex Function Products
T. K. Philip Hwang, Horng-Yi Yu, *National Taipei University of Technology, Taiwan.*

Study on Synthetic Evaluation of Human Performance in Manually Controlled Spacecraft Rendezvous and Docking Tasks
Ting Jiang, Chunhui Wang, Zhiqiang Tian, *China Astronaut Training and Research Center, P.R. China*; Yongzhong Xu, *National Laboratory of Human Factors Engineering, P.R. China*; Zheng Wang, *China Astronaut Training and Research Center, P.R. China.*

OCSC S068

Online Communities and Social Computing

Higher Education and Social Computing Applications

Room: **Liberty**

Chair(s): Gabriele Meiselwitz, *Towson University, United States.*

Gaining Insight into the Application of Second Life in a Computing Course: Students' Perspectives
James Braman, Alfreda Dudley, *Towson University, United States*; Kidd Colt, *Independent Consultant, United States*; Giovanni Vincenti, Yuanqiong Wang, *Towson University, United States.*

Is Your Social Networking Privacy Reliant on Intuitive Interfaces?
Deborah Carstens, Veronica Giguere, *Florida Institute of Technology, United States.*

Recent Trends in Software Support for Online Communities for Teaching and Research Projects in Higher Education
Daniel Kadenbach, Carsten Kleiner, *University of Applied Sciences & Arts Hannover, Germany.*

Teacher Agents: The Current State, Future Trends, and Many Roles of Intelligent Agents in Education
Kevin Reed, *Northern Virginia Community College, United States*; Gabriele Meiselwitz, *Towson University, United States.*

Assessments in Large- and Small-scale Wiki Collaborative Learning Environments: Recommendations for Educators and Wiki Designers
Portia Pusey, Gabriele Meiselwitz, *Towson University, United States.*

Third Agers and Social Networking in Higher Education
Christopher Connolly, Gabriele Meiselwitz, *Towson University, United States.*

Meet Researcher in the Real World using the ConAR:Context-Aware Researcher
Sung-Wook Baek, Jong-Hoon Seo, Tack-Don Han, *Yonsei University, Korea.*

AC S069

Augmented Cognition

AugCog Overview

Room: **Nassau**

Chair(s): Kay Stanney, *Design Interactive, Inc., United States.*

A Hierarchical Adaptation Framework for Adaptive Training Systems
Sven Fuchs, Angela Carpenter, Meredith Carroll, Kelly Hale, *Design Interactive, Inc., United States.*

Theoretical Transpositions in Brain Function and the Underpinnings of Augmented Cognition
Cali Fidopiastis, *University of Alabama, Birmingham, United States.*

Facial Recognition: An Enabling Technology for Augmented Cognition Applications
Denise Nicholson, Christine Podilchuk, Kathleen Bartlett, *DSCI, United States.*

The Evolution of Human Systems: A Brief Overview
Jefferson Grubb, *Naval Air Warfare Center Training Systems Division, United States*; Joseph Cohn, *Office of Naval Research, United States.*

Trust in Human-Computer Interactions as Measured by Frustration, Surprise, and Workload
Leanne Hirshfield, Stuart Hirshfield, Samuel Hincks, Matthew Russell, Rachel Ward, Tom Williams, *Hamilton College, United States.*

An Intelligent Infrastructure for In-Flight Situation Awareness of Aviation Pilots
Alessandro Di Nuovo, Rosario Bruno Cannavo, Santo Di Nuovo, *Universita degli Studi di Catania, Italy.*

Characterizing the Performance Limits of High Speed Image Triage using Bayesian Search Theory
Santosh Mathan, *Honeywell Labs, United States*; Kenneth Hild, Yonghong Huang, Misha Pavel, *Oregon Health and Science University, United States.*

DHM S070

Digital Human Modeling

Applications of Digital Human Modelling

Room: **Empire**

Chair(s): Cornelius Malerczyk, *University of Applied Science Friedberg-Giessen, Germany.*

A Framework for Automatic Simulated Accessibility Assessment in Virtual Environments
Nikolaos Kaklanis, Panagiotis Moschonas, Konstantinos Moustakas, Dimitrios Tzovaras, *Centre for Research and Technology Hellas (CERTH), Greece.*

Second Life as a Platform for Creating Intelligent Virtual Agents
Larry Hodges, *Clemson University, United States*; Amy Ulinski, *University of Wyoming, United States*; Toni Bloodworth, Austen Hayes, John Mark Smotherman, *Clemson University, United States*; Brandon Kerr, *University of North Carolina at Charlotte, United States.*

Polymorphic Cumulative Learning in Integrated Cognitive Architectures for Analysis of Pilot-Aircraft Dynamic Environment
Yin Tangwen, Shan Fu, *Shanghai Jiaotong University, P.R. China.*

The Research of Crew Workload Evaluation Based on Digital Human Model
Yiyuan Zheng, Shan Fu, *Shanghai Jiaotong University, P.R. China.*

Planar Vertical Jumping Simulation-A Pilot Study
Burak Ozsoy, Jingzhou (James) Yang, *Texas Tech University, United States.*

HCD S071

Human Centered Design

Objective Aspects and Subjective Aspects in User Experience

Room: **Sarasota**

Chair(s): Masaaki Kurosu, *The Open University of Japan, Japan.*

Descriptive Words for Expressing the User Experience
Masaaki Kurosu, *The Open University of Japan, Japan.*

Real User Experience of ICT Devices among Elderly People
Ayako Hashizume, Toshimasa Yamanaka, *University of Tsukuba, Japan*; Masaaki Kurosu, *The Open University of Japan, Japan.*

Idea Creation Method for HCD
Kazuhiko Yamazaki, *Chiba Institute of Technology, Japan.*

Vision-proposal Design Method
Koji Yanagida, *Kurashiki University of Science and the Art, Japan*; Yoshihiro Ueda, *Fujitsu Design, Ltd., Japan*; Kentaro Go, *University of Yamanashi, Japan*; Katsumi Takahashi, *Holon Create Inc., Japan*; Seiji Hayakawa, *Ricoh, Japan*; Kazuhiko Yamazaki, *Chiba Institute of Technology, Japan.*

Study of Honest Signal: Bringing Unconscious Channel of Communication into Awareness through Interactive Prototype
Youn Jung Kwak, *Seoul National University, Korea*; Tiia Suomalainen, Jussi Mikkonen, *Aalto University, Finland.*

Investigation of Indirect Oral Operation Method for Think Aloud Usability Testing
Masahiro Hori, Yasunori Kihara, Takashi Kato, *Kansai University, Japan.*

Investigating Users' Interaction with Physical Products - Applying Qualitative and Quantitative Methods
Chun-Juei Chou, *National Cheng Kung University, Taiwan*; Chris Conley, *Gravitytank (Innovation Consulting Firm), United States.*

TUESDAY 16:00 - 18:00

Design, User Experience, and Usability

DUXU

S072

Promoting Design Quality, Design Culture and Innovative Thinking within the Enterprise

Room: **Taylor**

Chair(s): Sabine Kabel-Eckes, *SAP Labs, LLC, United States*.

Design Innovation for Enterprise Software
Mark Detweiler, Liam Friedland, *Informatica, United States*.

Why Enterprises Can't Innovate: Helping Companies Learn Design Thinking
Jon Innes, *UX Innovation LLC, United States*.

Designing the AR Experience: Tools and Tips for Mobile Augmented Reality UX Design
Gini Keating, Daniel Guest, Anne Konertz, Niccolo Padovani, Andrea Villa, *Qualcomm, United States*.

The Necessity of Personal Freedom to Increase HCI Design Quality
Rudiger Heimgartner, *Intercultural User Interface Consulting (IUIC), Germany*; Helmut Windl, Alkesh Solanki, *Continental Automotive GmbH, Germany*.

Scalability of UX Activities in Large Enterprises: An Experience Report from SAP AG
Boris Hecker, Matthias Berger, *SAP AG, Germany*.

Make Space for the Customer: The Shift Towards Customer Centricity
Kostanija Petrovic, *OpenText Corporation, Germany*; Melanie Siegmann, *SAP AG, Germany*.

Make User-Centered Design Sustainable in China
JunJie (Jeff) Zhu, *SAP Labs China, P.R. China*.

S073

Sustainability: Future Roles, Responsibilities, and Opportunities for the HCI Profession

Room: **Union**

Chair(s): Christine Ronnewinkel, *SAP, Germany*; Janaki Kumar, *SAP Labs, LLC., United States*.

Future Centered Design: Designing for Sustainable Business
Janaki Kumar, Peter Graf, *SAP Labs, LLC., United States*.

Managing a Green Giant: Sustainability Performance Management, a User Experience Perspective
Benjamin Tomsky, Angad Manco, *SAP Labs, LLC., United States*.

What Sustainability Brings to the Research Table
Niyati Bedekar, Sally Lawler Kennedy, *SAP Labs, LLC., United States*.

The Grid Intelligent Planning Framework: Planning Electric Utility Investments in a Time of Accelerating Change
Geoff Ryder, Fatimah Shahid, Sui Yan, *SAP Labs, LLC., United States*.

User-Experience for Personal Sustainability Software: Determining Design Philosophy and Principles
Aaron Marcus, Jennifer Dumpert, Laurie Wigham, *Aaron Marcus and Associates, Inc. (AM+A), United States*.

HIMI

Human Interface and the Management of Information

S074

Communication Enhancement

Room: **Jackson**

Chair(s): Yutaka Ishii, *Okayama Prefectural University, Japan*; Momoko Nakatani, *NTT Corporation, Japan*.

How Do Real or Virtual Agent's Body and Instructions Contribute to Task Achievement?
Yugo Takeuchi, Hisashi Naito, *Shizuoka University, Japan*.

Multimodal Conversation Scene Analysis for Understanding People's Communicative Behaviors in Face-to-Face Meetings
Kazuhiro Otsuka, *NTT Corporation, Japan*.

Visual Feedback to Reduce Influence of Delay on Video Chatting
Kazuyoshi Murata, Masatsugu Hattori, Yu Shibuya, *Kyoto Institute of Technology, Japan*.

Interaction Mediate Agent based on User Interruptibility Estimation
Takahiro Tanaka, Kinya Fujita, *Tokyo University of Agriculture and Technology, Japan*.

A Digital Archive System for Preserving Audio and Visual Space
Makoto Uesaka, Yusuke Ikegaya, Tomohito Yamamoto, *Kanazawa Institute of Technology, Japan*.

Care Giving System Based on Consciousness Recognition
Noriko Yokoyama, Tomoyuki Yamaguchi, *Waseda University, Japan*; Shuji Hashimoto, *NTT Corporation / Waseda University, Japan*.

Development of an Eye-Tracking Pen Display for Analyzing Embodied Interaction
Michiya Yamamoto, Hiroshi Sato, Keisuke Yoshida, *Kwansei Gakuin University, Japan*; Takashi Nagamatsu, *Kobe University, Japan*; Tomio Watanabe, *Okayama Prefectural University, Japan*.

S075

Designing Web Sites and Interfaces to Optimize HCI

Room: **Liberty**

Chair(s): Robert Proctor, *Purdue University, United States*.

Designing Web Sites and Interfaces to Optimize Successful User Interactions: Symposium Overview
Robert Proctor, *Purdue University, United States*; Kim-Phuong Vu, *California State University, Long Beach, United States*.

Advances in E-commerce User Interface Design
Lawrence Najjar, *TandemSeven, Inc., United States*.

Does Privacy Information Influence Users' Online Purchasing Behavior?
Jimmy Nguyen, Kim-Phuong Vu, *California State University, Long Beach, United States*.

Riding the Technology Wave: Effective Dashboard Data Visualization
Lisa Pappas, Lisa Whitman, *SAS Institute, United States*.

A Conceptual Model of the Axiomatic Usability Evaluation Method
Yinni Guo, Robert Proctor, *Purdue University, United States*; Gavriel Salvendy, *Purdue University / Tsinghua University (P.R. China), United States*.

Usability Issues in Introducing Capacitive Interaction into Mobile Navigation
Shuang Xu, Keith Bradburn, *Lexmark International, United States*.

Movement Time for Different Input Devices
L. Paige Bacon, Kim-Phuong Vu, *California State University, Long Beach, United States*.

HCI

Human-Computer Interaction

continues ▶▶

S076

Advanced System Architecture in the Social Context (II)

Room: **Sarasota**

Chair(s): Yoshio Nakatani, *Ritsumeikan University, Japan*; Shogo Nishida, *Osaka University, Japan*.

Influence of Prior Knowledge and Embodiment on Human-Agent Interaction
Yugo Hayashi, Victor Kryssanov, *Ritsumeikan University, Japan*; Kazuhisa Miwa, *Nagoya University, Japan*; Hitoshi Ogawa, *Ritsumeikan University, Japan*.

A Study and Evaluation on Route Guidance of a Car Navigation System based on Augmented Reality
Kengo Akaho, Takashi Nakagawa, Yoshihisa Yamaguchi, Katsuya Kawai, *Mitsubishi Electric Corporation, Japan*; Hirokazu Kato, *Nara Institute of Science and Technology, Japan*; Shogo Nishida, *Osaka University, Japan*.

Developing a User Recommendation Engine on Twitter Using Estimated Latent Topics
Hiroyuki Koga, Tadahiro Taniguchi, *Ritsumeikan University, Japan*.

Recall and Communication Support System for Reminiscence Triggered by Humming
Yusuke Kita, Yoshio Nakatani, *Ritsumeikan University, Japan*.

A Haptic Emotional Model for Audio System Interface
Yuki Ichiyanagi, Eric Cooper, Victor Kryssanov, Hitoshi Ogawa, *Ritsumeikan University, Japan*.

Can Twitter be an Alternative of Real-world Sensors?
Tetsuro Takahashi, Shuya Abe, Nobuyuki Igata, *Fujitsu Laboratories, Ltd., Japan*.

Recommendation System Based on Interaction with Multiple Agents for Users with Vague Intention
Itaru Kuramoto, Atsushi Yasuda, *Kyoto Institute of Technology, Japan*; Mitsuru Minakuchi, *Kyoto Sangyo University, Japan*; Yoshihiro Tsujino, *Kyoto Institute of Technology, Japan*.

S077

Tabletop and Surface Interaction

Room: **Park**

Chair(s): Karsten Nebe, *University of Paderborn, Germany*.

uPlatform: a Customizable Multi-user Windowing System for Interactive Tabletop
Chenjun Wu, Yue Suo, Chun Yu, Yuanchun Shi, Yongqiang Qin, *Tsinghua University, P.R. China*.

A Tabletop-based Real-World-Oriented Interface
Hiroshi Takeda, Hidetoshi Miyao, Minoru Maruyama, David Asano, *Shinshu University, Japan*.

uMeeting, an Efficient Co-Located Meeting System On the Large-Scale Tabletop
Jie Liu, Yuanchun Shi, *Tsinghua University, P.R. China*.

Effect of Aesthetic Design Elements on Tabletop Display Interaction
Hyunglae Lee, *Massachusetts Institute of Technology (MIT), United States*; Hyunjn Shin, Ji-Hyung Park, *Korea Institute of Science and Technology (KIST), Korea*.

An Investigation on Requirements for Co-located Group-Work using Multitouch-, Pen-based- and Tangible-Interaction
Karsten Nebe, Tobias Muller, Florian Klompmaker, *University of Paderborn, Germany*.

Saving and Restoring Mechanisms for Tangible User Interfaces through Tangible Active Objects
Eckard Riedenklau, Thomas Hermann, Helge Ritter, *Bielefeld University, Germany*.

Parallel Sessions

WEDNESDAY 08:00 - 10:00

HCI S078

Text, Human Languages and Translation

Room: Lexington

Chair(s): Sven Schmeier, *German Research Center for Artificial Intelligence (DFKI), Germany.*

Computer Assistance in Bilingual Task-Oriented Human-Human Dialogues
Sven Schmeier, Matthias Rebel, Renlong Ai, *German Research Center for Artificial Intelligence (DFKI), Germany.*

Can Indicating Translation Accuracy Encourage People to Rectify Inaccurate Translations?
Mai Miyabe, Takashi Yoshino, *Wakayama University, Japan.*

Design of a Face-to-face Multilingual Communication System for a Handheld Device in the Medical Field
Shun Ozaki, Takuo Matsunobe, Takashi Yoshino, *Wakayama University, Japan*; Aguri Shigeno, *Center for Multicultural Society Kyoto, Japan.*

Developing and Exploiting a Multilingual Grammar for Human-Computer Interaction
Xian Zhang, Rico Andrich, Dietmar Rosner, *University of Magdeburg, Germany.*

VOSS -A Voice Operated Suite for the Barbadian Vernacular
David Byer, Colin Depradine, *University of the West Indies, Barbados.*

New Techniques for Merging Text Versions
Darius Dadgari, Wolfgang Stuerzlinger, *York University, Canada.*

MusicTagger: Exploiting User Generated Game Data for Music Recommendation
Hannes Olivier, Marc Waselewsky, Niels Pinkwart, *Technical University of Clausthal, Germany.*

HCI S079

Health and Well-being Applications

Room: Jade

Chair(s): Marko Nieminen, *Aalto University, Finland.*

Clinical Communication: Human-Computer and Human-Human Interactions
Saif Khairat, Yang Gong, *University of Missouri, United States.*

A User-Friendly Tool for Detecting the Stress Level in a Person's Daily Life
Irene Zaragoza, Beatriz Rey, *Universidad Politecnica de Valencia, Spain*; Cristina Botella, *Universitat Jaume I, Spain*; Rosa Banos, *Universitat de Valencia, Spain*; Ines Moragrega, Diana Castilla, *Universitat Jaume I, Spain*; Mariano Alcaniz, *Universidad Politecnica de Valencia, Spain.*

mediRobbi: An Interactive Companion for Pediatric Patients During Hospital Visit
Szu-Chia Lu, Nicole Blackwell, Ellen Yi-Luen Do, *Georgia Institute of Technology, United States.*

A Real-Time Interactive MIDI Glove for Domicile Stroke Rehabilitation
Nizan Friedman, David Reinkensmeyer, Mark Bachman, *University of California, Irvine, United States.*

Report on a Preliminary Study Using Breath Control and a Virtual Jogging Scenario as Biofeedback for Resilience Training
Jacquelyn Morie, Eric Chance, J. Galen Buckwalter, *University of Southern California, United States.*

The Design of an Interactive Stroke Rehabilitation Gaming System
Linda Harley, Scott Robertson, Maribeth Gandy, Simeon Harbert, Douglas Britton, *Georgia Institute of Technology, United States.*

EPCE S080

Engineering Psychology and Cognitive Ergonomics

Detecting Terrorist Activities

Room: Taylor

Chair(s): Alex Stedmon, Glyn Lawson, *The University of Nottingham, United Kingdom.*

The Effects of Individual and Context on Aggression in Repeated Social Interaction
Jolie Martin, Ion Juvina, Christian Lebiere, Cleotilde Gonzalez, *Carnegie Mellon University, United States.*

Using Behavioral Measures to Assess Counter-Terrorism Training in the Field
V. Alan Spiker, *Anacapa Sciences, Inc., United States*; Joan Johnston, *Naval Air Warfare Center Training Systems Division, United States.*

Scent trails: Countering Terrorism through Informed Surveillance
Alex Sandham, Tom Ormerod, Coral Dando, *Lancaster University, United Kingdom*; Ray Bull, *Leicester University, United Kingdom*; Mike Jackson, James Goulding, *The University of Nottingham, United Kingdom.*

Acoustic Correlates of Deceptive Speech - An Exploratory Study
David Howard, Christin Kirchhubel, *University of York, United Kingdom.*

Deception and Self-Awareness
Glyn Lawson, Alex Stedmon, *The University of Nottingham, United Kingdom*; Chloe Zhang, Dawn Eubanks, *University of Bath, United Kingdom*; Lara Frumkin, *The University of East London, United Kingdom.*

Adversarial Behavior in Complex Adaptive Systems: An Overview of ICST's Research on Competitive Adaptation in Militant Networks
John Horgan, Michael Kenney, Mia Bloom, Cale Horne, Kurt Braddock, Peter Vining, Nicole Zinni, *Pennsylvania State University, United States*; Kathleen Carley, Michael Bigrigg, *Carnegie Mellon University, United States.*

UAHCI S081

Universal Access in Human-Computer Interaction

Information Technology Strategies in Health Care

Room: Palm Beach

Chair(s): Joyram Chakraborty, *State University of NY, The College at Brockport, United States.*

A Top-k Analysis Using Multi-level Association Rule Mining for Autism Treatments
Kelley Engle, Roy Rada, *UMBC, United States.*

Evaluation of Video Game Interfaces
Joyram Chakraborty, Phillip Bligh, *State University of NY, The College at Brockport, United States.*

Supporting a Shared Dialog on Healthcare Policy between Researchers, Practitioners, and the Lay Public: Creating the SpeakHealth Online Community
David Gurzick, *Hood College, United States*; Lee Boot, *UMBC, United States*; Stacy Arnold, *Infoculture, United States*; Martha Gurzick, *Shady Grove Adventist Hospital, United States.*

Preliminary Framework for Studying Self-Reported Data in Electronic Medical Records within a Continuing Care Retirement Community
Kelley Gurley, Anthony Norcio, *UMBC, United States.*

Bringing the Home into the Hospital: Assisting the Pre-Discharge Home Visit Process using 3D Home Visualisation Software
Arthur Money, *University of Bedfordshire, United Kingdom*; Anne McIntyre, Anita Atwal, Georgia Spiliotopoulou, Tony Elliman, *Brunel University, United Kingdom*; Tim French, *University of Bedfordshire, United Kingdom.*

S082	S083	S084	VMR S085
Active Ageing with ICT *Room:* Nassau Chair(s): Qin Gao, *Tsinghua University, P.R. China*.	**SMART Interfaces for Consumer Health Applications (II)** *Room:* Dixie Chair(s): Josette Jones, *Indiana University, United States*.	**The Future of Universal Access (II)** *Room:* Empire Chair(s): Noam Ben Asher, *Ben-Gurion University of the Negev, Israel*; Gisela Susanne Bahr, *Florida Institute of Technology, United States*.	**Toward Ultra-Reality Technology for VR/MR** *Room:* Madison Chair(s): Yasushi Ikei, *Tokyo Metropolitan University, Japan*.
Mobile Wikipedia: A Case Study of Information Service Design for Chinese Teenagers Jia Zhou, P.L. Patrick Rau, Christoph Rohmer, Jie Zhou, Christophe Ghalayini, Felix Roerig, *Tsinghua University, P.R. China*. **Towards an Evidence-based and Context-aware Elderly Caring System Using Persuasive Engagement** Yu-Chun Yen, Ching-Hu Lu, Yi Chung Cheng, Jing-Shiang Chen, Li Chen Fu, *National Taiwan University, Taiwan*. **Investigating the Relationships between User Capabilities and Product Demands for Older and Disabled Users** Umesh Persad, *The University of Trinidad and Tobago, Trinidad and Tobago*; Patrick Langdon, P. John Clarkson, *University of Cambridge, United Kingdom*. **In Search of Information on Websites: A Question of Age?** Eugenius Loos, *University of Amsterdam, Netherlands*. **Muntermacher – "Think and Move" Interface and Interaction Design of a Motion-Based Serious Game for the Generation Plus** Holger Graf, Christian Tamanini, Lukas Geissler, *Fraunhofer, Germany*. **Videogames and Elders: a New Path in LCT?** Nicola D'Aquaro, *Associazione AQUA, Italy*; Dario Maggiorini, Giacomo Mancuso, Laura Anna Ripamonti, *Universita degli Studi di Milano, Italy*.	**Exploring Health Website Users by Web Mining** Wei Kong, Josette Jones, *Indiana University, United States*. **Can User Tagging Help Health Information Seekers?** Malika Mahoui, Josette Jones, Andrew Meyerhoff, *Indiana University, United States*; Toufeeq Syed Ahmed, *Vanderbilt University, United States*. **Increasing Physical Activity by Implementing a Behavioral Change Intervention using Pervasive Personal Health Record System: An Exploratory Study** Hadi Kharrazi, Lynn Vincz, *Indiana University, United States*. **Developing Protege to Structure Medical Report** Josette Jones, Kanitha Phalakornkule, Tia Fitzpatrick, Sudha Iyer, Consuelo Zorina Ombac, *Indiana University, United States*. **BioSEME: A Semantically-Integrated Content Management System for Cancer Research** Ionut Mihai Stancu, *Indiana University, United States*. **Construction of Adaptive User Interfaces for Non-Professional Geriatric Care** Eric Tinsley, Jean Bandos, *My Health Care Manager, Inc., United States*.	**Smart Cities, Ambient Intelligence and Universal Access** Norbert Streitz, *Smart Future Initiative, Germany*. **Universal Access in Ambient Intelligent Environments – A Research Agenda** Pier Luigi Emiliani, Laura Burzagli, Francesco Gabbanini, *Consiglio Nazionale delle Ricerche (CNR), Italy*. **Practical Aspects of Running Experiments with Human Participants** Frank Ritter, *Pennsylvania State University, United States*; Jong Kim, *University of Central Florida, United States*; Jonathan Morgan, Richard Carlson, *Pennsylvania State University, United States*. **Age-related Accessibility Biases in Pass-face Recognition** Ray Adams, *Middlesex University, United Kingdom*; Gisela Susanne Bahr, *Florida Institute of Technology, United States*; Ejder Sevgen Raif, *Middlesex University, United Kingdom*. **Forms of Interaction in Virtual Space: Applications to Psychotherapy and Counselling** Shagun Chawla, Nigel Foreman, *Middlesex University, United Kingdom*. **Lessons Learned Regarding Simulator Sickness in Older Adult Drivers** Nicholas Cassavaugh, Joshua Domeyer, Richard Backs, *Central Michigan University, United States*.	Virtual and Mixed Reality **Ultra-reality and Virtual Reality** Yasushi Ikei, Masahiro Urano, *Tokyo Metropolitan University, Japan*. **Concave-convex Surface Perception by Visuo-vestibular Stimuli for Five-Senses Theater** Tomohiro Amemiya, *NTT Corporation, Japan*; Koichi Hirota, *The University of Tokyo, Japan*; Yasushi Ikei, *Tokyo Metropolitan University, Japan*. **A System for Creating the Content for a Multi-Sensory Theater** Koichi Hirota, Seichiro Ebisawa, *The University of Tokyo, Japan*; Tomohiro Amemiya, *NTT Corporation, Japan*; Yasushi Ikei, *Tokyo Metropolitan University, Japan*. **Interactive Exhibition with Ambience using Video Avatar and Animation on Huge Screen** Hasup Lee, Yoshisuke Tateyama, Tetsuro Ogi, *Keio University, Japan*; Teiichi Nishioka, *University of Tsukuba, Japan*; Takuro Kayahara, *Miyagi University, Japan*; Kenichi Shinoda, *National Museum of Nature and Science, Japan*. **Towards Noninvasive Brain-Computer Interfaces during Standing for VR Interactions** Hideaki Touyama, *Toyama Prefectural University, Japan*. **Olfactory Display Using Visual Feedback Based on Olfactory Sensory Map** Tomohiro Tanikawa, Aiko Nambu, Takuji Narumi, Kunihiro Nishimura, Michitaka Hirose, *The University of Tokyo, Japan*. **Irradiating Heat in Virtual Environments:Algorithm and Implementation** Marco Gaudina, Andrea Brogni, Darwin Caldwell, *Istituto Italiano di Tecnologia (IIT), Italy*.

continues ▶▶

Parallel Sessions

WEDNESDAY 08:00 - 10:00

VMR S086

Health and Rehabilitation Applications of VR and AR

Room: Fulton

Chair(s): Vassilis Charissis, *Glasgow Caledonian University, United Kingdom.*

Serious Games for the Therapy of the?Posttraumatic Stress Disorder of Children and Adolescents
Rafael Radkowski, *Heinz Nixdorf Institute, Germany*; Wilfried Huck, *LWL-University Clinic Hamm, Germany*; Gitta Domik, *University of Paderborn, Germany*; Martin Holtmann, *LWL-University Clinic Hamm, Germany.*

Emotions and Telerehabilitation: Pilot Clinical Trials for Virtual Telerehabilitation Application Using Haptic Device and its Impact on Post Stroke Patients' Mood and Motivation
Shih-Ching Yeh, *National Central University, Taiwan*; Margaret McLaughlin, Yujung Nam, Scott Sanders, Chien-Yen Chang, Bonnie Kennedy, Sheryl Flynn, Belinda Lange, *University of Southern California, United States*; Lei Li, *Microsoft, United States*; Shu-ya Chen, Maureen Whitford, Carolee Winstein, *University of Southern California, United States*; Younbo Jung, *Nanyang Technological University, Singapore*; Albert "Skip" Rizzo, *University of Southern California, United States.*

AR Based Environment for Exposure Therapy to Mottephobia
Andrea Abate, Michele Nappi, Stefano Ricciardi, *University of Salerno, Italy.*

An Interactive Multimedia System for Parkinson's Patient Rehabilitation
Wenhui Yu, Catherine Vuong, Todd Ingalls, *Arizona State University, United States.*

Mixed Reality as a Means to Strengthen Post-stroke Rehabilitation
Ines Di Loreto, *LIRMM - Universite Montpellier 2, France*; Liesjet Van Dokkum, *Universite Montpellier 1, France*; Abdelkader Gouaich, *LIRMM - UniversitA© Montpellier 2, France*; Isabelle Laffont, *Universite Montpellier 1, France.*

IDGD S087

Internationalization, Design and Global Development

Social Networks: Cultural Design and Analysis Methods

Room: Manatee

Chair(s): Vanessa Evers, *University of Amsterdam, Netherlands*; Haijie Ding, *Reya Group, P.R. China.*

Cross-cultural Design of a Groupware Application for Global Virtual Team
Rein Suadamara, Stefan Werner, Axel Hunger, *University Duisburg-Essen, Germany.*

The Impact of «Device» in Social Networking: An Explorative Study with Turkish Social Network Site Users on the Nature of Interactions through Personal Computers and Smartphones
Ozgurol Ozturk, Kerem Rizvanoglu, Sezgin Polat, Fatih Karanfil, Ozan Bakis, *Galatasaray University, Turkey.*

On the Design of Organizational Network Analysis Software
Jacob Rigby, *Reyagroup, United States*; Haijie Ding, *Reya Group, P.R. China.*

An Investigation on the Relationship between Informal Networks and Organizational Performance
Haijie Ding, *Reya Group, P.R. China*; Jacob Rigby, *Reyagroup, United States.*

Using Embedded Technology Badges to Derive Social Networks, Patterns of Interaction & Space Utilization in a Corporate Headquarters
Jay Brand, Gabor Nagy, *Haworth, United States*; Haijie Ding, *Reya Group, P.R. China.*

Does Internationalization Have its Own Face in Each Country? Measuring the Internationalization of Web Presence on Higher Education Admission Web Pages between USA and Taiwan
Juihsiang Lee, *China University of Technology / National Yunlin University of Science & Technology, Taiwan*; Manlai You, *National Yunlin University of Science and Technology, Taiwan.*

AC S088

Augmented Cognition

Cultural Neuroscience and Individual Differences: Implications for Augmented Cognition

Room: Escambia

Chair(s): Laura Matzen, *Sandia National Laboratories, United States.*

Augmenting Brain and Cognition by Aerobic Exercise
Kirk Erickson, *University of Pittsburgh, United States.*

The Influence of Culture on Memory
Angela Gutchess, Aliza Schwartz, *Brandeis University, United States*; Aysecan Boduroglu, *Bogazici University, Turkey.*

Computational Cultural Neuroscience: Implications for Augmented Cognition
Joan Chiao, *Northwestern University, United States.*

Individual Differences and the Science of Human Performance
Chris Forsythe, Robert Abbott, Susan Stevens-Adams, Stacey Hendrickson, Michael Trumbo, Michael Haass, *Sandia National Laboratories, United States.*

Cultural Neuroscience and Individual Differences: Implications for Augmented Cognition
Laura Matzen, *Sandia National Laboratories, United States.*

Learning in Virtual Worlds: a New Path for Supporting Cognitive Impaired Children
Laura Anna Ripamonti, Dario Maggiorini, *Universita degli Studi di Milano, Italy.*

A Longitudinal Study of P300 Brain-Computer Interface and Progression of Amyotrophic Lateral Sclerosis
Nathan Gates, Christopher Hauser, Eric Sellers, *East Tennessee State University, United States.*

DHM S089

Digital Human Modeling

Upper Extremity Safety and Health

Room: Hamilton

Chair(s): Kang Li, *Rutgers University, United States*; Jia-Hua Lin, *Liberty Mutual Research Institute for Safety, United States.*

Dynamic Power Tool Operation Model: Experienced Users vs. Novice Users
Jia-Hua Lin, Raymond McGorry, Chien-Chi Chang, *Liberty Mutual Research Institute for Safety, United States.*

Postural Observation of Shoulder Flexion during Asymmetric Lifting Tasks
Xu Xu, Chien-Chi Chang, *Liberty Mutual Research Institute for Safety, United States*; Gert Faber, *Harvard School of Public Health, United States*; Idsart Kingma, *VU University Amsterdam, Netherlands*; Jack Dennerlein, *Harvard School of Public Health, United States.*

The Upper Extremity Loading during Typing Using One, Two and Three Fingers
Jin Qin, *UMass Lowell / Liberty Mutual Research Institute for Safety, United States*; Matthieu Trudeau, Jack Dennerlein, *Harvard School of Public Health, United States.*

In Silicon Study of 3D Elbow Kinematics
Kang Li, *Rutgers University, United States*; Virak Tan, *University of Medicine and Dentistry of New Jersey, United States.*

Introducing ema (Editor for Manual Work Activities) – A New Tool for Enhancing Accuracy and Efficiency of Human Simulations in Digital Production Planning
Lars Fritzsche, *imk automotive GmbH, United States*; Ricardo Jendrusch, Wolfgang Leidholdt, Sebastian Bauer, Thomas Jackel, Attila Pirger, *imk automotive GmbH, Germany.*

Optimization-Based Posture Prediction for Analysis of Box Lifting Tasks
Tim Marler, Lindsey Knake, Ross Johnson, *The University of Iowa, United States.*

Verification of Two Models of Ballistic Movements
Jui-Feng Lin, *Yuan Ze University, Taiwan*; Colin Drury, *State University of NY at Buffalo, United States.*

DUXU S090 / S091

Design, User Experience, and Usability

Psychological and Physiological Evaluation for User on Interface Design

Room: **Union**

Chair(s): Keiko Kasamatsu, *Tokyo Metropolitan University, Japan*; Shin'ichi Fukuzumi, *NEC Corporation, Japan*.

Clarification of Kansei Elements of Attractiveness Related to Usability for Long Term Mobile Phone Users
Hiroaki Kiso, *NEC Corporation, Japan*; Nanae Kashiwase, Keiko Kasamatsu, *Tokyo Metropolitan University, Japan*; Misako Yamagishi, Hideo Jingu, *Kanazawa Institute of Technology, Japan*; Shin'ichi Fukuzumi, *NEC Corporation, Japan*.

Comparisons on Kansei Factors of Attractiveness between Initial and Long Term Use of Mobile Phone
Nanae Kashiwase, Keiko Kasamatsu, *Tokyo Metropolitan University, Japan*; Hiroaki Kiso, Shin'ichi Fukuzumi, *NEC Corporation, Japan*; Misako Yamagishi, Hideo Jingu, *Kanazawa Institute of Technology, Japan*.

Proposal for Indices to Assess Attractiveness on Initial Use of Mobile Phones
Misako Yamagishi, Hideo Jingu, *Kanazawa Institute of Technology, Japan*; Keiko Kasamatsu, *Tokyo Metropolitan University, Japan*; Hiroaki Kiso, Shin'ichi Fukuzumi, *NEC Corporation, Japan*.

A Study on the Time Estimation Measurement for Web Usability Evaluation
Keiji Suzuki, Mitsuhiko Karashima, Hiromi Nishiguchi, *Tokai University, Japan*.

Studies on Imaging Methods to Realize Effective BCI through ERPs
Mariko Funada, *Hakuoh University, Japan*; Yoshihide Igarashi, *Gunam University, Japan*; Tadashi Funada, *Rikkyo University, Japan*; Miki Shibukawa, *Hakuoh University, Japan*.

A Quantitative Evaluation on the Software Use Experience with Electroencephalogram
Hitoshi Masaki, Masao Ohira, *Nara Institute of Science and Technology, Japan*; Hidetake Uwano, *Nara National College of Technology, Japan*; Ken-ichi Matsumoto, *Nara Institute of Science and Technology, Japan*.

User Characteristic-Based Information-Providing Service for Museum with Optical See-Through Head-Mounted Display: Does It Evoke Enthusiasm?
Yuki Yasuma, Miwa Nakanishi, *Keio University, Japan*.

Novel Mobile Interactions, Services and Environments

Room: **Lake**

Chair(s): Arne Berger, Robert Knauf, *Chemnitz University of Technology, Germany*.

Moody Mobile TV: Exploring TV Clips With Personalized Playlists
Arne Berger, Robert Knauf, Maximilian Eibl, *Chemnitz University of Technology, Germany*; Aaron Marcus, *Aaron Marcus and Associates, Inc. (AM+A), United States*.

Ethnographic Research of User Behavior of Mobile Devices of China, Korea, India, and the Netherlands
Daeeop Kim, Kun-Pyo Lee, *Korea Advanced Institute of Science and Technology (KAIST), Korea*.

An Extensible Tool for the Annotation of Images and Videos using Segmentation and Tracking
Marc Ritter, Maximilian Eibl, *Chemnitz University of Technology, Germany*.

The Health Machine: Mobile UX Design that Combines Information Design with Persuasion Design
Aaron Marcus, *Aaron Marcus and Associates, Inc. (AM+A), United States*.

Phone Use and Aging: Do Spatial Interface Metaphors Help?
Mark Turner, Roxane Cortes, *University of Portsmouth, United Kingdom*.

Mobile Web Usability: Developing Guidelines for Mobile Web via Smart Phones
Sungmoo Hong, Sung Chul Kim, *KT R&D Center, Korea*.

Dynamic Navigation System Design for Networked Electric Vehicles
Frazer McKimm, *DHS, Ltd., Ireland*; Manuela Galli, Veronica Cimolin, *Politecnico di Milano, Italy*.

EHAWC S092

Ergonomics and Health Aspects of Work with Computers

Biomedical and Health Visualization HCI Design

Room: **Nassau**

Chair(s): Anthony Faiola, *Indiana University, United States*; Taowei David Wang, *University of Maryland, United States*.

Advancing Critical Care in the ICU: A Human-Centered Biomedical Data Visualization Systems
Anthony Faiola, Chris Newlon, *Indiana University, United States*.

A Comparative Study of Children's eHealth Design between East and West: a Case Study of a Children's Health Website in China, Taiwan, the UK, and the US
Yah-Ling Hung, *Fu-Jen Catholic University, Taiwan*; Catherine Stones, *University of Leeds, United Kingdom*.

Interactive Medical Volume Visualizations for Surgical Online Applications
Konrad Muhler, Mathias Neugebauer, Bernhard Preim, *University of Magdeburg, Germany*.

Emerging Triage Support Environment for Dementia Care with Camera System
Taro Sugihara, Tsutomu Fujinami, *Japan Advanced Institute of Science and Technology (JAIST), Japan*.

The Disability-Simulator: Simulating the Influences of Disabilities on the Usability of Graphical User Interfaces
Kai Breiner, Tobias Wuchner, Malte Brunnlieb, *University of Kaiserslautern, Germany*.

Visually Exploring Multivariate Trends in Patient Cohorts using Animated Scatter Plots
Alexander Rind, *Donau-Universitat Krems, Austria*; Wolfgang Aigner, *Vienna University of Technology, Austria*; Silvia Miksch, *Donau-Universitat Krems, Austria*; Sylvia Wiltner, Margit Pohl, *Vienna University of Technology, Austria*; Felix Drexler, *Landesklinikum Krems, Austria*; Barbara Neubauer, Nikolaus Suchy, *Vienna University of Technology, Austria*.

HIMI S093

continues ▶▶

Human Interface and the Management of Information

Practical Implications of Applied Visual Analytics

Room: **Palm Beach**

Chair(s): Yan Liu, *Wright State University, United States*; Paul Havig, *Air Force Research Laboratory, United States*.

Visual Random Forests for Large High Dimensional Data
Joshua Huang, *Institutes of Advanced Computing and Digital Engineering, P.R. China*.

What Does It Mean to Apply Visual Analytics and How Do You Do It?
Paul Havig, *Air Force Research Laboratory, United States*.

Air, Space, Cyber - User Defined Operating Picture (ASC-UDOP): the Benefits and Pitfalls of Allowing the User to Tell their Own Story
Jason Moore, *Air Force Research Laboratory, United States*.

Multivariate Data Visualization: A Review from the Perception Aspect
Yan Liu, *Wright State University, United States*.

Cognitive Processes in Visual Analytics
Robert Patterson, *Air Force Research Laboratory, United States*.

A Classification Scheme for Characterizing Visual Mining
Elaheh Mozaffari, Sudhir Mudur, *Concordia University, Canada*.

WEDNESDAY 10:30 - 12:30

HIMI S094

Industrial, Aeronautical and Military Applications

Room: Liberty

Chair(s): Nickolas Macchiarella, *Embry-Riddle Aeronautical University, United States*

A Human Interface Toolkit for Developing Operation Support System of Complex Industrial Systems with IVI-COM Technology
Yangping Zhou, Yujie Dong, Xiaojin Huang, *Tsinghua University, P.R. China*; Hidekazu Yoshikawa, *Symbio Community Forum, Japan*.

Macroergonomics in Air Traffic Control - The Approach of a New System
Luiza Rebello, *Universidade Federal do Rio Grande do Norte, Brazil*.

Pilot Information Presentation on the Flight Deck: an Application of Synthetic Speech and Visual Digital Displays
Nickolas Macchiarella, Jason Kring, Michael Coman, Tom Haritos, Zoubair Entezari, *Embry-Riddle Aeronautical University, United States*.

Multimodal Threat Cueing in Simulated Combat Vehicle with Tactile Information Switching between Threat and Waypoint Indication
Patrik Lif, Per-Anders Oskarsson, Bjorn Lindahl, Johan Hedstrom, Jonathan Svensson, *Swedish Defence Research Agency, FOI, Sweden*.

Experimental Investigation of Misuse and Disuse in Using Automation System
Akihiro Maehigashi, Kazuhisa Miwa, Hitoshi Terai, *Nagoya University, Japan*; Kazuaki Kojima, *Waseda University, Japan*; Junya Morita, *Japan Advanced Institute of Science and Technology (JAIST), Japan*; Yugo Hayashi, *Ritsumeikan University, Japan*.

ICT-enabled Business Process Re-engineering: International Comparison
Ya-Ching Lee, *National Sun Yat-sen University, Taiwan*; Pin-Yu Chu, *National Chengchi University, Taiwan*; Hsien-Lee Tseng, *National Sun Yat-sen University, Taiwan*.

The e-progression in SEs'
Karl Sandberg, Olof Wahlberg, Fredrik Hakansson, *Mid Sweden University, Sweden*.

Human-Computer Interaction

HCI S095

Emotions in HCI

Room: Hamilton

Chair(s): Maximiliano Romero, *Politecnico di Milano, Italy*.

Multimodal Emotion Classification in Naturalistic User Behavior
Steffen Walter, Stefan Scherer, Martin Schels, Michael Glodek, David Hrabal, Miriam Schmidt, *Ulm University, Germany*; Ronald Bock, *University of Magdeburg, Germany*; Kerstin Limbrecht, Harald Traue, Friedhelm Schwenker, *Ulm University, Germany*.

Guess Who? An Interactive and Entertaining Game-like Platform for Investigating Human Emotions
Muneeb Imtiaz Ahmad, Hassan Tariq, Mehreen Saeed, *National University of Computer and Emerging Science, Pakistan*; Suleman Shahid, Emiel Krahmer, *Tilburg University, Netherlands*.

Adaptive Machine Learning Approach for Emotional Email Classification
K. Karthik, R. Ponnusamy, *AVIT - Vinayaka Missions University, India*.

Toward Adapting Interactions by Considering User Emotions and Capabilities
Idoia Cearreta, Nestor Garay-Vitoria, *University of the Basque Country, Spain*.

Intentionality in Interacting with Companion Systems - an Empirical Approach
Dietmar Rosner, Rafael Friesen, Mirko Otto, Julia Lange, Matthias Haase, Jorg Frommer, *University of Magdeburg, Germany*.

Affective Videogame. The Problem of Wearability and Comfort
Andrea Bonarini, Fiammetta Costa, Maurizio Garbarino, Matteo Matteuci, Maximiliano Romero, Simone Tognetti, *Politecnico di Milano, Italy*.

The Effect of Physical Embodiment of an Animal Robot on Affective Prosody Recognition
Myounghoon Jeon, Infantdani Rayan, *Georgia Institute of Technology, United States*.

S096

Novel Interaction Methods and Techniques

Room: Escambia

Chair(s): G Michael Poor, *Bowling Green State University, United States*.

ARAMIS: Toward a Hybrid Approach for Human-Environment Interaction
Stefano Carrino, *University of Fribourg & College of Engineering and Architecture of Fribourg, Switzerland*; Elena Mugellini, Omar Abou Khaled, *College of Engineering and Architecture of Fribourg, Switzerland*; Rolf Ingold, *University of Fribourg, Switzerland*.

Passive Identification and Control of Arbitrary Devices in Smart Environments
Andreas Braun, Felix Kamieth, *Fraunhofer, Germany*.

Research of Passive Mode Interaction in Pervasive Computing
Yin Lu, Kejian Miao, Zhanhuai Li, *Northwestern Polytechincal University, P.R. China*; Ke Wei, *Shaanxi Provincial Tourism Institute, P.R. China*.

Scratchable Devices: User-Friendly Programming for Household Appliances
Jordan Ash, Monica Babes, Gal Cohen, Sameen Jalal, Sam Lichtenberg, Michael Littman, Vukosi Marivate, Phillip Quiza, Blase Ur, Emily Zhang, *Rutgers University, United States*.

Introducing Animatronics to HCI: Extending Reality-Based Interaction
G Michael Poor, *Bowling Green State University, United States*; Rob Jacob, *Tufts University, United States*.

A Method of Multiple Odors Detection and Recognition
Dong-Kyu Kim, Yong-Wan Roh, Kwang-Seok Hong, *Sungkyunkwan University, Korea*.

Dancing Skin: An Interactive Device for Motion
Sheng-Han Chen, Teng-Wen Chang, *National Yunlin University of Science and Technology, Taiwan*; Sheng-cheng Shi, *MingDao University, Taiwan*.

S097

Learning Environments

Room: Madison

Chair(s): To be announced

CAI Platform for Fundamental Geometric Training on Perspective Sketching
Ding-Bang Luh, Shao-Nung Chen, *National Cheng Kung University, Taiwan*.

Effects of Print-storybooks and E-storybooks with Reading Comprehension Strategies on Fifth Graders' Reading Comprehension Ability
Huang Hsiu-Shuang, *National University of Tainan, Taiwan*; Chen Shang-Liang, *National Cheng Kung University, Taiwan*; Leou Yea-Mei, *National Tainan Institute of Nursing, Taiwan*; Huang Ho-Chuan, *National Kaohsiung University of Applied Sciences, Taiwan*; Yeh Ching-Yu, *National University of Tainan, Taiwan*; Chen Yun-Yao, *National Cheng Kung University, Taiwan*; Elaine Chen, *National University of Tainan, Taiwan*; Tseng Ya-Ying, *National Changhua University of Education, Taiwan*.

Exploring Children's Requirements for the Graphic Design of the WebOPAC
Tengku Siti Meriam Tengku Wook, *National University of Malaysia, Malaysia*; Siti Salwah Salim, *University of Malaya, Malaysia*.

A Web-based Learning Environment to Support Chemistry
Candice Adams, Cheryl Seals, *Auburn University, United States*.

Creating a New Context for Activity in Blended Learning Environments: Engaging the Twitchy Fingers
Jayne Klenner-Moore, *King's College, United States*.

Comparison of a 3-D expression system and a Standardized IQ Test for Children
Akihiro Suzuki, Masayuki Wajima, Takashi Kawakami, Tetsuo Okazaki, *Hokkaido Institute of Technology, Japan*.

EPCE S098

Engineering Psychology and Cognitive Ergonomics

Cognitive Issues in Interaction (III)

Room: **Fulton**

Chair(s): Katrin Fischer, *University of Applied Sciences Northwestern Switzerland, Switzerland.*

Subitizing-Counting Analogue Observed in a Fast Multi-tapping Task
Hiro-Fumi Yanai, Kyouhei Kurosawa, Kousuke Takahashi, *Ibaraki University, Japan.*

Display System for Advertising Image with Scent and Psychological Effect
Keisuke Tomono, *Wartburg College, United States*; Hiroki Wakatsuki, Shigeki Kumazawa, Akira Tomono, *Tokai University, Japan.*

Viability of Mobile Devices for Training Purposes
Shehan Sirigampola, Steven Zielinski, Glenn Martin, Jason Daly, Jaime Flores, *University of Central Florida, United States.*

Consideration of Human Factors for Prioritizing Test Cases for the Software System Test
Christoph Malz, *University of Stuttgart, Germany*; Kerstin Sommer, *Technische Universitat Munchen, Germany*; Peter Gohner, *University of Stuttgart, Germany*; Birgit Vogel-Heuser, *Technische Universitat Munchen, Germany.*

Estimation of Driver's Fatigue Based on Steering Wheel Angle
Qichang He, Wei Li, Xiumin Fan, *Shanghai Jiaotong University, P.R. China.*

UAHCI S099

Universal Access in Human-Computer Interaction

Smart Products and Services

Room: **Lake**

Chair(s): Kevin Tseng, *Chang Gung University, Taiwan.*

Chetoe.com: An Integrated Web 2.0 Service for Automatically Travel Planning
Hsien-Tsung Chang, Zi-Ning Liu, Yi-Ting Wang, Che-Wen Chang, Chia-An Hung, *Chang Gung University, Taiwan.*

Design and Development a Social Networks Platform for Older People
Chien-Lung Hsu, Kevin Tseng, Chin Lung Tseng, Boo Chen Liu, *Chang Gung University, Taiwan.*

An Investigation into a Personalised and Web2.0-Based Search Engine Interface
Tsai-Hsuan Tsai, Hsien-Tsung Chang, Shih-Ting Huang, *Chang Gung University, Taiwan.*

Connecting Communities: Designing a Social Media Platform for Older Adults Living in a Senior Village
Tsai-Hsuan Tsai, Hsien-Tsung Chang, *Chang Gung University, Taiwan*; Alice May-Kuen Wong, *Chang-Gung Memorial Hospital, Taiwan*; Tsung-Fu Wu, *Chang Gung University, Taiwan.*

A New Structure of Online Learning Environment to Support the Professional Learning
Wenzhi Chen, Yu-Hao Lin, *Chang Gung University, Taiwan.*

A Telehealthcare System to Care for Older People Suffering from Metabolic Syndrome
Kevin Tseng, Chien-Lung Hsu, *Chang Gung University, Taiwan*; Yu-Hao Chuang, *National Central University, Taiwan.*

S100

Designing Interactions for the Ageing Society

Room: **Dixie**

Chair(s): Carlos Duarte, *University of Lisbon, Portugal.*

Virtual Reality for AAL Services Interaction Design and Evaluation
Pilar Sala, *ITACA-TSB Universidad Politecnica de Valencia, Spain*; Felix Kamieth, *Fraunhofer, Germany*; Juan Bautista Mocholi, Juan Carlos Naranjo, *ITACA-TSB Universidad Politecnica de Valencia, Spain.*

Investigating the Accessibility of Program Selection Menus of a Digital TV Interface
Pradipta Biswas, Patrick Langdon, *University of Cambridge, United Kingdom.*

Self-adapting TV Based Applications
Daniel Costa, Carlos Duarte, *University of Lisbon, Portugal.*

Adapting Multimodal Fission to User's Abilities
David Costa, Carlos Duarte, *University of Lisbon, Portugal.*

Adaptive Multimodal Fusion
Pedro Feiteira, Carlos Duarte, *University of Lisbon, Portugal.*

The Effects of Font Size and Page Presentation Method of E-book Reading on Small Screens for Older adults
Wang-Chin Tsai, Yi-Lin Lo, Ya-Tzu Chang, Chang-Franw Lee, *National Yunlin University of Science and Technology, Taiwan.*

S101

Universal Accessibility in Documents

Room: **Manatee**

Chair(s): Georgios Kouroupetroglou, *University of Athens, Greece.*

Web Application for Analysis, Manipulation and Generation of Accessible PDF Documents
Alireza Darvishy, Hans-Peter Hutter, Oliver Mannhart, *Zurich University of Applied Sciences, Switzerland.*

Metagnostic Deductive Question Answering with Explanation from Texts
John Kontos, Joseph Armaos, Ioanna Malagardi, *University of Athens, Greece.*

Collaborative Editing for All: the Google Docs Example
Giulio Mori, Maria Claudia Buzzi, Marina Buzzi, Barbara Leporini, *Consiglio Nazionale delle Ricerche (CNR), Italy*; Victor Penichet, *University of Castilla-La Mancha, Spain.*

Acoustic Modelling of Dialogue Elements for Document Accessibility
Pepi Stavropoulou, Dimitris Spiliotopoulos, Georgios Kouroupetroglou, *University of Athens, Greece.*

Readable Image for the Visually Impaired
Sunil Kumar Kopparapu, *TCS Innovation Labs - Mumbai, India.*

Survey: Improving Document Accessibility from the Blind and Visually Impaired User's Point of View
Martin Dorigo, *University of Plymouth, United Kingdom*; Bettina Harriehausen-Muhlbauer, Ingo Stengel, *University of Applied Sciences Darmstadt, Germany*; Paul Dowland, *University of Plymouth, United Kingdom.*

From «Reading» Math to «Doing» Math: A New Direction in Non-Visual Math Accessibility
Nancy Alajarmeh, Enrico Pontelli, Tran Son, *New Mexico State University, United States.*

Parallel Sessions

VMR S102

Virtual and Mixed Reality

Developing Virtual Environments (II)

Room: **Empire**

Chair(s): Jose San Martin, *Universidad Rey Juan Carlos, Spain*.

Enhancing Marker-based AR Technology
Jong-Hoon Seo, Jinwook Shim, Ji-Hye Choi, James Park, Tack-Don Han, *Yonsei University, Korea*.

Semi Autonomous Camera Control in Dynamic Virtual Environments
Marcel Klomann, Jan-Torsten Milde, *Fulda University of Applied Sciences, Germany*.

Study of Optimal Behavior in Complex Virtual Training Systems
Jose San Martin, *Universidad Rey Juan Carlos, Spain*.

LIS3D: Low-cost 6DOF Laser Interaction for outdoor Mixed Reality
Pedro Santos, Hendrik Schmedt, Bernd Amend, *Fraunhofer, Germany*; Philip Hammer, *Deck 13 GmbH, Germany*; Ronny Giera, *Semantis Information Builders GmbH, Germany*; Elke Hergenroether, *University of Applied Sciences Darmstadt, Germany*; Andre Stork, *Technical University of Darmstadt, Germany*.

Mechatronic Prototype for Rigid Endoscopy Simulation
Byron Perez-Gutierrez, Camilo Ariza Zambrano, Juan Camilo Hernandez, *Nueva Granada Military University, Colombia*.

IDGD S103

Internationalization, Design and Global Development

HCI for Economic Development: from HCI4D to the PRC

Room: **Jackson**

Chair(s): Emilie Gould, *State University of NY at Albany, United States*.

Working toward Women's Economic Empowerment: Using Information and Communication Technology in Developing Areas to Market Traditional Crafts
Melissa Secore Levis, *Rensselaer Polytechnic Institute, United States*.

Seeing the World in 5 Dimensions - More or Less?
Emilie Gould, *State University of NY at Albany, United States*.

Culture-Centered Design: Culture Audit of Screen Designs for Educational Software in Saudi Arabia
Aaron Marcus, *Aaron Marcus and Associates, Inc. (AM+A), United States*; Emilie Gould, *State University of NY at Albany, United States*; Laurie Wigham, *Aaron Marcus and Associates, Inc. (AM+A), United States*.

Designing for Social Commerce Experience as Cultural Consumption
Huatong Sun, *Miami University, United States*.

Sub-Saharan Africa: Failures, Successes, and the Implementation of ICTS
Vanessa Maestas, *Rensselaer Polytechnic Institute, United States*.

Human-Computer Interaction as an instrument for strengthening Culture and Language of a Colombian Native Community
Santiago Ruano Rincon, Annabelle Boutet, Gilles Coppin, *Telecom-Bretagne, France*; Franck Poirier, *Universite de Bretagne-Sud, France*; Tulio Rojas Curieux, *Universidad del Cauca, Colombia*.

Toward the new Sullivan Principles in the Information Age: Conflicts and Challenges of Multinational Information Technology Companies in Asian Countries
Byul Shin, *Rensselaer Polytechnic Institute, United States*.

OCSC S104

Online Communities and Social Computing

Interacting with Wikis and Blogs

Room: **Park**

Chair(s): Mark Zachry, *University of Washington, United States*

Interpreting User-Generated Content: What Makes a Blog Believeable?
Rahayu Ahmad, Wayne Lutters, *UMBC, United States*.

Mining Social Relationships in Micro-blogging Systems
Qin Gao, Qu Qu, Xuhui Zhang, *Tsinghua University, P.R. China*.

An Exploratory Study of Navigating Wikipedia Semantically: Model and Application
I-Chin Wu, Yi-Sheng Lin, *Fu-Jen Catholic University, Taiwan*; Che-Hung Liu, *National University of Tainan, Taiwan*.

Collaborative Sensemaking during Admin Permission Granting in Wikipedia
Katie Derthick, Patrick Tsao, Travis Kriplean, Alan Borning, Mark Zachry, David McDonald, *University of Washington, United States*.

Impact of Blog Design Features on Blogging Satisfaction – An Impression Management Perspective
Wee-Kek Tan, Hock-Hai Teo, *National University of Singapore, Singapore*.

AC S105

Augmented Cognition

AugCog in Training and Education

Room: **Sarasota**

Chair(s): Roy Stripling, *Office of Naval Research, United States*.

EEG Knows Best: Predicting Future Performance Problems for Targeted Training
Gwenn Campbell, Christine Belz, *Naval Air Warfare Center Training Systems Division, United States*; Charles Scott, *Kaegan, United States*; Phan Luu, *Electrical Geodesics, Inc., United States*.

From Sound to Meaning: Changes in EEG Source-Localized Brain Activity with Foreign-Language Training
Catherine Poulsen, Phan Luu, Colin Davey, Don Tucker, Joey Nelson, *Electrical Geodesics, Inc., United States*.

Ongoing Efforts Towards Developing a Physiologically Driven Training System
Joe Coyne, Ciara Sibley, *Naval Research Laboratory, United States*; Carrly Baldwin, *George Mason University, United States*.

Neuroergonomic Assessment of Simulator Fidelity in an Aviation Centric Live Virtual Constructive (LVC) Application
Tom Schnell, *The University of Iowa, United States*; Alex Postnikov, *Rockwell Collins, United States*; Nancy Hamel, *Advanced Infoneering, Inc., United States*.

Interactive Neuro-Educational Technologies (I-NET): Development of a Novel Platform for Neurogaming
Giby Raphael, Adrienne Behneman, Veasna Tan, Nicholas Pojman, Chris Berka, *Advanced Brain Monitoring, Inc., United States*.

Improving Students' Meta-Cognitive Skills within Intelligent Educational Systems: A Review
Alejandro Pena-Ayala, *WOLNM / IPN / Osaka University, Mexico*; Michiko Kayashima, *Tamagawa University, Japan*; Riichiro Mizoguchi, *Osaka University, Japan*; Rafael Dominguez, *ESIME-Z IPN, Mexico*.

Considering Cognitive Traits of University Students with Dyslexia in the Context of a Learning Management System
Carolina Mejia Corredor, *University of Girona, Spain*; Alicia Diaz Megona, Juan Jimenez Gonzalez, *Universidad de La Laguna, Spain*; Ramon Fabregat, *University of Girona, Spain*.

DHM S106

Digital Human Modeling

Cognitive Modelling and AR/VR based Support Technologies for Future Home and Work Environments

Room: **Union**

Chair(s): Bo Hoege, Jeronimo Dzaack, *Technische Universitat Berlin, Germany*.

Implicit Human-Computer Interaction by Posture Recognition
Enrico Maier, *Technische Universitat Berlin, Germany*.

Incorporating Motion Data and Cognitive Models in IPS
Michael Beckmann, Jeronimo Dzaack, *Technische Universitat Berlin, Germany*.

Multimodal, Touchless Interaction in Spatial Augmented Reality Environments
Monika Elepfandt, Marcelina Sunderhauf, *Technische Universitat Berlin, Germany*.

Less Driving While Driving? An Approach for the Estimation of Effects of Future Vehicle Automation Systems on Driver Behavior
Bertram Wortelen, Andreas Ludtke, *OFFIS – Institute for Information Technology, Germany*.

A Model of Shortcut Usage in Multimodal Human-Computer Interaction
Stefan Schaffer, *Technische Universitat Berlin, Germany*; Robert Schleicher, Sebastian Moller, *Deutsche Telekom Laboratories, Germany*.

A Context-Aware Adaptation System for Spatial Augmented Reality
Anne Wegerich, Matthias Rotting, *Technische Universitat Berlin, Germany*.

Multimodal User Interfaces in IPS²
Ulrike Schmuntzsch, Matthias Rotting, *Technische Universitat Berlin, Germany*.

An Empirical Study of Disassembling Using an Augmented Vision System
Barbara Odenthal, Marcel Mayer, Wolfgang Kabuss, Bernhard Kausch, Christopher Schlick, *RWTH Aachen University, Germany*.

HCD S107

Human Centered Design

Towards a Human-Centred Web

Room: **Lexington**

Chair(s): To be announced

An Experimental Study of Home Page Design on Green Electronic Products Web Site
Fei-Hui Huang, *Oriental Institute of Technology, Taiwan*.

Culturally Situated Design Tools: Animated Support Tools for Mathematics
Albanie Bolton, Cheryl Seals, *Auburn University, United States*.

Development of Web-Based Participatory Trend Forecasting System: urtrend.net
Eui-Chul Jung, *Yonsei University, Korea*; Soon-Jong Lee, HeeYun Chung, BoSup Kim, HyangEun Lee, YoungHak Oh, YounWoo Cho, WoongBae Ra, HyeJin Kwon, June-Young Lee, *Seoul National University, Korea*.

Exploring the Impact of Cultures on Web Usability Test
Hsiu Ching Hsieh, *National Yunlin University of Science and Technology, Taiwan*.

Management of Weight-Loss: Patients' and Healthcare Professionals' Requirements for an E-health System for Patients
Anita Das, Arild Faxvaag, Dag Svanaes, *Norwegian University of Science and Technology, Norway*.

SemaZoom: Semantics Exploration by Using a Layer-based Focus and Context Metaphor
Dirk Burkhardt, Kawa Nazemi, Matthias Breyer, Christian Stab, Arjan Kuijper, *Fraunhofer, Germany*.

Extraction of User Interaction Patterns for Low-usability Web Pages
Toshiya Yamada, *The Graduate University for Advanced Studies, Japan*; Noboru Nakamichi, *Nanzan University, Japan*; Tomoko Matsui, *The Institute of Statistical Mathematics, Japan*.

DUXU S108 / S109

Design, User Experience, and Usability

ISO Usability Standards and Enterprise Software

Room: **Taylor**

Chair(s): Anna Wichansky, *Oracle, United States*.

ISO 25062 Usability Test Planning for a Large Enterprise Applications Suite
Sean Rice, Jatin Thaker, Anna Wichansky, *Oracle, United States*.

ISO Standards for Standard Software: Accountability, Customer Expectations and Reality
Ulrich Kreichgauer, *SAP AG, Germany*.

ISO Standards and Enterprise Software: A Case Study Using SUMI and SUS in an International Sale
Joyce Ohgi, Jeff Sauro, *Oracle, United States*.

ISO 20282: Is a Practical Standard for the Usability of Consumer Products Possible?
Nigel Bevan, *Professional Usability Services, United Kingdom*; Simon Raistrick, *Foviance, United Kingdom*.

ISO Usability Standards and Enterprise Software: A Management Perspective
Clemens Lutsch, *Microsoft Deutschland GmbH, Germany*.

Usability Standards across the Development Lifecycle
Mary Theofanos, Brian Stanton, *National Institute of Standards and Technology, United States*.

User Experience and the Web

Room: **Jade**

Chair(s): Abbas Moallem, *San Jose State University, United States*.

Did You Forget Your Password?
Abbas Moallem, *San Jose State University, United States*.

A Solution to Revisitation Using Organic Bookmark Management
Siu-Tsen Shen, *National Formosa University, Taiwan*; Stephen Prior, *Middlesex University, United Kingdom*; Kuen-Meau Chen, *National United University, Taiwan*.

Exploring Cultural Variation in Eye Movements on a Web Page between Americans and Koreans
Chang Woo Yang, *Valdosta State University, United States*.

Trails – An Interactive Web History Visualization and Tagging Tool
Wenhui Yu, Todd Ingalls, *Arizona State University, United States*.

HCI Browser: A Tool for Administration and Data Collection for Studies of Web Search Behaviors
Robert Capra, *University of North Carolina at Chapel Hill, United States*.

Measuring Cultural Markers in Arabic Government Websites Using Hofstede's Cultural Dimensions
Nouf Khashman, Andrew Large, *McGill University, Canada*.

Enhancing Interactions of Self-Help Groups in Africa through Mobile Solutions: Design Guidelines
Mokeira Masita-Mwangi, Faith Ronoh-Boreh, Patricia Aruwa, *Nokia Research Center, Kenya*.

Parallel Sessions

EHAWC S110

Ergonomics and Health Aspects of Work with Computers

New Ways of Working in Offices

Room: Union

Chair(s): Elsbeth Korte, *TNO, Netherlands*.

Alternative Workstations may be New but are they Better?
Alan Hedge, *Cornell University, United States*.

New Ways of Working: A Proposed Framework and Literature Review
Merle Blok, Liesbeth Groenesteijn, Christiaan Van den Berg, Peter Vink, *TNO, Netherlands*.

Nonvisual Effects of Led Coloured Ambient Lighting on Well-Being and Cardiac Reactivity: Preliminary Findings
Michel Varkevisser, *Thales Research & Technology, Netherlands*; Roy Raymann, *Philips Research Europe, Netherlands*; David Keyson, *Delft University of Technology, Netherlands*.

The Effect of Vibrotactile Feedback on Novice Older Adults in Target Selection Tasks
Bora UZUM, Mehmet Gokturk, *Gebze Institute of Technology, Turkey*.

Effects of Meeting Room Interior Design on Team Performance in a Creativity Task
Elsbeth Korte, Lottie Kuijt, Rick Van der Kleij, *TNO, Netherlands*.

HIMI S111

Human Interface and the Management of Information

Kansei Value Creation

Room: Nassau

Chair(s): Michiko Ohkura, *Shibaura Institute of Technology, Japan*.

Emotion Recognition Using Biological Signal in Intelligent Space
Kanlaya Rattanyu, Makoto Mizukawa, *Shibaura Institute of Technology, Japan*.

Auditory Feature Parameters for Music Based on Human Auditory Processes
Masashi Murakami, Toshikazu Kato, *Chuo University, Japan*.

Surprise Generator for Virtual KANSEI Based on Human Surprise Characteristics
Masaki Zenkyou, Ken Tomiyama, *Chiba Institute of Technology, Japan*.

Virtual Interaction Between Human and Fabric
Shigeru Inui, Akihiro Yoneyama, Yosuke Horiba, *Shinshu University, Japan*.

Study on Evaluation of Kawaii Colors using Visual Analog Scale
Tsuyoshi Komatsu, Michiko Ohkura, *Shibaura Institute of Technology, Japan*.

Petimo: Sharing Experiences through Physically Extended Social Networking
Nimesha Ranasinghe, Owen Noel Newton Fernando, Adrian David Cheok, *National University of Singapore, Singapore*.

Ontological Approach to Aesthetic Feelings: A Multilingual Case of Cutism
Akifumi Tokosumi, Fumina Teng, *Tokyo Institute of Technology, Japan*.

S112

Designing the Service Engineering in the Present Day

Room: Sarasota

Chair(s): Sakae Yamamoto, *Tokyo University of Science, Japan*; Hirohiko Mori, *Tokyo City University, Japan*.

Supporting of Requirements Elicitation for Ensuring Services of Information Systems Used for Education
Yuki Terawaki, *The University of Tokyo / Hosei University, Japan*.

Privacy Concern in Ubiquitous Society and Research on Consumer Behavior
Yumi Asahi, *Tokyo University of Science, Japan*.

Service Science Method to Create Pictograms Referring to Sign Languages
Naotsune Hosono, *Oki Consulting Solutions Co., Ltd., Japan*; Hiromitsu Inoue, *Chiba Prefectural University of Health Sciences, Japan*; Hiroyuki Miki, *Oki Electric Ind. Co., Ltd., Japan*; Michio Suzuki, *Association of Architectural of Japanese DEAF (AAJD), Japan*; Yuji Nagashima, *Kogakuin University, Japan*; Yutaka Tomita, *Keio University, Japan*; Sakae Yamamoto, *Tokyo University of Science, Japan*.

Evaluation of Disaster Information Management System Using Tabletop User Interfaces
Hidemi Fukada, *Otaru University of Commerce, Japan*; Kazue Kobayashi, Aki Katsuki, *NTT COMWARE CORPORATION, Japan*; Naotake Hirasawa, *Otaru University of Commerce, Japan*.

Study on Accessibility of Urgent Message Transmission Service in a Disaster
Shunichi Yonemura, *NTT Corporation, Japan*; Kazuo Kamata, *Utsunomiya University, Japan*.

Disaster Information Collecting/ Providing Service for Local Residents
Yuichi Takahashi, *Tokyo University of Science, Japan*; Daiji Kobayashi, *Chitose Institute of Science and Technology, Japan*; Sakae Yamamoto, *Tokyo University of Science, Japan*.

A Study on Selection Ability in the 3D Space by the Finger
Makoto Oka, Yutaro Ooba, Hidetaka Kuriiwa, Ryuta Yamada, Hirohiko Mori, *Tokyo City University, Japan*.

S113

Visualisation Methods, Techniques and Applications

Room: Jackson

Chair(s): Jan Stelovsky, *University of Hawaii at Manoa, United States*.

VizKid : A Behavior Capture and Visualization System of Adult-Child Interaction
Grace Shin, Taeil Choi, Agata Rozga, Mario Romero, *Georgia Institute of Technology, United States*.

Visualizing Programs on Different Levels of Abstractions
Jo-Han Wu, Jan Stelovsky, *University of Hawaii at Manoa, United States*.

VICPAM: A Visualization Tool for Examining Interaction Data in Multiple Display Environments
Roshanak Zilouchian Moghaddam, Brian Bailey, *University of Illinois at Urbana-Champaign, United States*.

Visualizing Stakeholder Concerns with Anchored Map
Takanori Ugai, *Fujitsu Laboratories, Ltd., Japan*.

Peer-to-Peer File Sharing Communication Detection using Spherical SOM Visualization for Network Management
Satoshi Togawa, *Shikoku University, Japan*; Kazuhide Kanenishi, Yoneo Yano, *The University of Tokushima, Japan*.

Explicit Modeling and Visualization of Imperfect Information in the Context of Decision Support for Tsunami Early Warning in Indonesia
Monika Friedemann, Ulrich Raape, Sven Tessmann, Thorsten Schoeckel, Christian Strobl, *German Aerospace Center (DLR), Germany*.

Performance Visualization for Large-Scale Computing Systems: A Literature Review
Qin Gao, Xuhui Zhang, P.L. Patrick Rau, *Tsinghua University, P.R. China*; Anthony Maciejewski, Howard Jay Siegel, *Colorado State University, United States*.

HCI

S114

Signal and image processing for HCI (II)

Room: **Liberty**

Chair(s): Ping Guo, *Beijing Normal University, P.R. China*.

An Image Segmentation Method for Chinese Paintings by Combining Deformable Models with Graph Cuts
Ning He, *Beijing Union University, P.R. China*; Lu Ke, *Graduate University of Chinese Academy of Sciences, P.R. China*.

A Novel Parallel Clustering Algorithm Based on Artificial Immune Network Using nVidia CUDA Framework
Ruiyi Luo, Qian Yin, *Beijing Normal University, P.R. China*.

Image Skeletonization Based on Curve Skeleton Extraction
Xiaoyan Hu, Bo Sun, Huiqin Zhao, Bin Xie, Hao Wu, *Beijing Normal University, P.R. China*.

Shape –based Human Actions Recognition in Videos
Nitish Amraji, Lin Mu, Mariofanna Milanova, *University of Arkansas at Little Rock, United States*.

Validating Video Analytics in Mission Critical Applications
Stephen Mitchell, Sukhpreet Gill, Steve Loveless, *Pelco, United States*; Brent Auernheimer, *California State University, Fresno, United States*.

A Detection Method of Basic Mouth Shapes from Japanese Utterance Images
Tsuyoshi Miyazaki, *Kanagawa Institute of Technology, Japan*; Toyoshiro Nakashima, *Sugiyama Jogakuen University, Japan*; Naohiro Ishii, *Aichi Institute of Technology, Japan*.

Dynamic Queries with Relevance Feedback for Content Based Image Retrieval
Murat Birinci, Esin Guldogan, Moncef Gabbouj, *Tampere University of Technology, Finland*.

S115

Cognitive and Psychological Issues in HCI (I)

Room: **Madison**

Chair(s): Satoru Inoue, *Electronic Navigation Research Institute, Japan*

Towards A Cognitive-Based User Interface Design Framework Development
Natrah Abdullah, Wan Adilah Wan Adnan, Nor Laila Md Noor, *Universiti Teknologi MARA, Malaysia*.

The Effects of Personality Type in User-Centered Appraisal Systems
Zacharias Lekkas, Nikos Tsianos, *University of Athens, Greece*; Panagiotis Germanakos, *University of Cyprus, Cyprus*; Constantinos Mourlas, *University of Athens, Greece*; George Samaras, *University of Cyprus, Cyprus*.

Finding a Relationship between Internet Anxiety and Human Behavior
Santosh Kalwar, Kari Heikkinen, Jari Porras, *Lappeenranta University of Technology, Finland*.

Fuzzy Linguistic Modelling Cognitive/Learning Styles for Adaptation through Multi-level Granulation
Ilham Huseyinov, *European University of Lefke, Turkey*.

Eye-movement-based Instantaneous Cognition Model for Non-verbal Smooth Closed Figures
Yuzo Takahashi, Shoko Koshi, *Hiroshima City University, Japan*.

Associating Learners' Cognitive Style with their Navigation Behaviors: A Data-Mining Approach
Yung-Chi Hsu, Sherry Chen, *National Central University, Taiwan*.

Extraversion and Computer Game Play: Who Plays What Games?
Xiaowen Fang, Miaoqi Zhu, *DePaul University, United States*.

S116

Novel Approaches to Usability

Room: **Park**

Chair(s): Christophe Kolski, *University of Valenciennes, France*.

Improving the Usability of Hierarchical Representations for Interactively Labeling Large Image Data Sets
Julia Moehrmann, *University of Stuttgart, Germany*; Stefan Bernstein, *University of Applied Sciences Mittweida, Germany*; Thomas Schlegel, *Technische Universitat Dresden, Germany*; Gunter Werner, *University of Applied Sciences Mittweida, Germany*; Gunther Heidemann, *University of Stuttgart, Germany*.

Towards an Automatic Analysis of Interaction Data for HCI Evaluation - Application to a Transport Network Supervision System
Selem Charfi, Houcine Ezzedine, Christophe Kolski, *University of Valenciennes, France*; Faouzi Moussa, *Universite de Tunis, Tunisia*.

Usability of Nomadic User Interfaces
Walter Dees, *Philips Research Labs, Netherlands*.

Key Requirements for Integrating Usability Engineering and Software Engineering
Karsten Nebe, *University of Paderborn, Germany*; Volker Paelke, *Institut de Geomatica, Spain*.

Inherent Usability Problems in Interactive Voice Response Systems
Hee-Cheol Kim, Deyun Liu, Ho-Won Kim, *Inje University, Korea*.

A Design Science Framework for Designing and Assessing User Experience
Sisira Adikari, Craig McDonald, John Campbell, *University of Canberra, Australia*.

Project and Development of ErgoColn version 2.0
Marcelo Morandini, Roberto Rodrigues, Marcus Cerrato, Marcos Chaim, *State University of Sao Paulo, Brazil*.

S117

Multimodal Interaction

Room: **Lexington**

Chair(s): Pedro Campos, *University of Madeira and INESC-ID, Portugal*

Exploiting New Interaction Techniques for Disaster Control Management Using Multitouch-, Tangible- and Pen-based-Interaction
Karsten Nebe, Florian Klompmaker, *University of Paderborn, Germany*; Helge Jung, *Siemens IT Solutions and Services GmbH, Germany*; Holger Fischer, *University of Paderborn, Germany*.

Windows Positioning System: Aural Assistance Environment for the Aging in Windows Navigation
Chi Chu, *China University of Technology, Taiwan*.

Needle Insertion Simulator with Haptic Feedback
Seungjae Shin, *University of Science & Technology / Korea Institute of Science and Technology (KIST), Korea*; Wanjoo Park, Hyunchul Cho, Sehyung Park, Laehyun Kim, *Korea Institute of Science and Technology (KIST), Korea*.

An Assistive Bi-Modal User Interface Integrating Multi-Channel Speech Recognition and Computer Vision
Alexey Karpov, Andrey Ronzhin, Irina Kipyatkova, *SPIIRAS, Russia*.

Experimental Study on Appropriate Reality of Agents as a Multi-modal Interface for Human-Computer Interaction
Kaori Tanaka, Tatsunori Matsui, Kazuaki Kojima, *Waseda University, Japan*.

GMM Parameter Estimation by Means of EM and Genetic Algorithms
Sergey Zablotskiy, Teerat Pitakrat, Kseniya Zablotskaya, Wolfgang Minker, *Ulm University, Germany*.

Taking Turns in Flying With a Virtual Wingman
Pim Nauts, *Tilburg University, Netherlands*; Willem Van Doesburg, *TNO, Netherlands*; Emiel Krahmer, *Tilburg University, Netherlands*; Anita Cremers, *TNO, Netherlands*.

Parallel Sessions

EPCE S118

Engineering Psychology and Cognitive Ergonomics

Situation Awareness and Transportation Safety

Room: Escambia

Chair(s): Paul Salmon, *Monash University, Australia.*

The Effects of Visual and Cognitive Distraction on Driver Situation Awareness
Meghan Rogers, Yu Zhang, David Kaber, *North Carolina State University, United States*; Yulan Liang, *Liberty Mutual Research Institute for Safety, United States*; Shruti Gangakhedkar, *North Carolina State University, United States.*

Cognitive Compatibility of Motorcyclists and Drivers
Guy Walker, *Heriot Watt University, United Kingdom*; Neville Stanton, *University of Southampton, United Kingdom*; Paul Salmon, *Monash University, Australia.*

Experienced and Novice Driver Situation Awareness at Rail Level Crossings: An Exploratory On-road Study
Paul Salmon, Michael Lenne, Kristie Young, *Monash University, Australia*; Guy Walker, *Heriot Watt University, United Kingdom.*

Enhancing Pilot Training with Advanced Measurement Techniques
Kelly Hale, *Design Interactive, Inc., United States*; Robert Breaux, *Private Consultant, United States.*

A Formalism for Assessing the Situation Awareness of Pilots
Steven Landry, Chittayong Surakitbanharn, *Purdue University, United States.*

Management of cognitive competencies of train dispatchers in the Swiss Federal Railway
Katrin Fischer, *University of Applied Sciences Northwestern Switzerland, Switzerland.*

UAHCI S119

Universal Access in Human-Computer Interaction

BCI: Application Interfaces and Environments

Room: Lake

Chair(s): Anton Nijholt, *University of Twente, Netherlands.*

Social Environments, Mixed Communication and Goal-Oriented Control Application Using a Brain-Computer Interface
Gunter Edlinger, Christoph Guger, *g.tec medical engineering GmbH and Guger Technologies OG, Austria.*

BCIs in Multimodal Interaction and Multitask Environments: Theoretical Issues and Initial Guidelines
Jan Van Erp, Marieke Thurlings, Peter Werkhoven, Anne-Marie Brouwer, *TNO, Netherlands.*

Towards Standardized User and Application Interfaces for the Brain Computer Interface
Paul McCullagh, Melanie Ware, Alexander McRoberts, Gaye Lightbody, Maurice Mulvenna, Gerry McAllsister, *University of Ulster, United Kingdom*; Jose Luis Gonzalez, Vicente Cruz Medina, *Telefonica, Spain.*

Perspectives on User Experience Evaluation of Brain-Computer Interfaces
Bram Van de Laar, Hayrettin Gurkok, Danny Plass - Oude Bos, Femke Nijboer, Anton Nijholt, *University of Twente, Netherlands.*

EEG-based Personalized Digital Experience
Olga Sourina, Yisi Liu, Qiang Wang, Minh Khoa Nguyen, *Nanyang Technological University, Singapore.*

Online BCI Implementation of High-frequency Phase Modulated Visual Stimuli
Danhua Zhu, Gary Garcia Molina, Vojkan Mihajlovic, Ronald Aarts, *Philips Research Europe, Netherlands.*

UAHCI S120

Affective Technology through Affective Management

Room: Dixie

Chair(s): Hiroyuki Umemuro, *Tokyo Institute of Technology, Japan.*

Affective Technology through Affective Management
Hiroyuki Umemuro, *Tokyo Institute of Technology, Japan.*

Do Hedonic and Eudaimonic Well-being of Online Shopping Come from daily Life Experience?
Jia Zhang, Hiroyuki Umemuro, *Tokyo Institute of Technology, Japan.*

Affective Climate of Workplace and its Contributing Factors
Waratta Authayarat, Hiroyuki Umemuro, *Tokyo Institute of Technology, Japan.*

General Factors that Elicit Human Affect Across Countries
Qin Tang, Hiroyuki Umemuro, *Tokyo Institute of Technology, Japan.*

Life in Affective Reality: Identification and Classification of Smiling in Early Childhood
Fumito Kawakami, Akifumi Tokosumi, *Tokyo Institute of Technology, Japan.*

Tactile Hand Gesture Recognition through Haptic Feedback for Affective Online Communication
Hae Youn Joung, Ellen Yi-Luen Do, *Georgia Institute of Technology, United States.*

Affective Technology for Older Adults: Does Fun Technology Affect Older Adults and Change their Lives?
Ryoko Fukuda, *Keio University, Japan.*

VMR S121

Virtual and Mixed Reality

VR in Products Design and Assembly

Room: Jade

Chair(s): Monica Bordegoni, *Politecnico di Milano, Italy.*

5-finger Exoskeleton for Assembly Training in Augmented Reality
Siam Charoenseang, Sarut Panjan, *King Mongkut's University of Technology Thonburi (KMUTT), Thailand.*

Fast Prototyping of Virtual Replica of Real Products
Francesco Ferrise, Monica Bordegoni, *Politecnico di Milano, Italy.*

Virtual Factory Manager
Marco Sacco, *Consiglio Nazionale delle Ricerche (CNR), Italy*; Giovanni Dal Maso, *Technology Transfer System S.r.l., Italy*; Ferdinando Milella, *SimX Ltd., United Kingdom*; Paolo Pedrazzoli, Diego Rovere, *ICIMSI - Computer Integrated Manufacturing Institute of Sustainable Innovation, Switzerland*; Walter Terkaj, *Consiglio Nazionale delle Ricerche (CNR), Italy.*

A Virtual Experiment Platform for Mechanism Motion Cognitive Learning
Xiumin Fan, Xi Zhang, Huanchong Cheng, Yanjun Ma, Qichang He, *Shanghai Jiaotong University, P.R. China.*

VClav 2.0 - System for Playing 3D Virtual Copy of a Historical Clavichord
Krzysztof Gardo, Ewa Lukasik, *Poznan University of Technology, Poland.*

IDGD S122

Internationalization, Design and Global Development

Social Innovation and Service Design Education and Practices in China

Room: **Hamilton**

Chair(s): Zhiyong Fu, *Tsinghua University, P.R. China.*

Experience Design on m-Commerce in China---Digital Marketing Oriented Social Innovation Design
Guan Yan, Wu Qiong, *Tsinghua University, P.R. China.*

Design for All: Social Innovation and Service Design Education and Practice in China
Jun Hai, Kin Wai Michael Siu, *The Hong Kong Polytechnic University, Hong Kong.*

Design for Social Emotional Interaction in China: Light-tech driven Design and Prototyping Applied in Design Education and Research
Feng Xian, Zhiyong Fu, *Tsinghua University, P.R. China.*

Interactive Media in Social Innovation
Xiaohua Sun, Lei Wang, *Tongji University, P.R. China.*

Designing for Social Urban Media: Creating an Integrated Framework of Social Innovation and Service Design in China
Zhiyong Fu, Xia Zhang, *Tsinghua University, P.R. China.*

Common Task-oriented Communication Tool Applied in Radiology Department of Hospital
Rui Yang, *GE Healthcare, P.R. China.*

OCSC S123

Online Communities and Social Computing

Information in On-line Communities

Room: **Fulton**

Chair(s): Anthony Norcio, *UMBC, United States.*

Extracting Events from Wikipedia as RDF Triples Linked to Widespread Semantic Web Datasets
Carlo Aliprandi, *Synthema Srl, Italy*; Francesco Ronzano, Andrea Marchetti, Maurizio Tesconi, Salvatore Minutoli, *Consiglio Nazionale delle Ricerche (CNR), Italy.*

Beyond the Social Search: Personalizing the Semantic Search in Social Networks
Julio Reis, *University of Campinas (UNICAMP), Brazil*; Rodrigo Bonacin, *Center for Information Technology Renato Archer (CTI), Brazil*; M. Cecilia Baranauskas, *University of Campinas (UNICAMP), Brazil.*

Community Search: A Collaborative Searching Web Application With a User Ranking System
Papon Yongpisanpop, Masao Ohira, Ken-ichi Matsumoto, *Nara Institute of Science and Technology, Japan.*

A Supervised Machine Learning Link Prediction Approach for Tag Recommendation
Manisha Pujari, Rushed Kanawati, *LIPN CNRS UMR 7030, France.*

Conversational Lives: Visualizing Interpersonal Online Social Interactions
Heng Chen, Aisling Kelliher, *Arizona State University, United States.*

AC S124

Augmented Cognition

Technology Integration

Room: **Palm Beach**

Chair(s): Joseph Cohn, *Office of Naval Research, United States.*

Challenges and Solutions with Augmented Cognition Technologies: Precursor Issues to Successful Integration
Joseph Cohn, *Office of Naval Research, United States.*

Towards a Software Toolkit for Neurophysiological Data Collection and Analysis
James Niehaus, Peter Weyhrauch, *Charles River Analytics, United States.*

Cognition: What Does It Have To Do With The Brain?
Alexandra Geyer, *Aptima, Inc., United States.*

Toward a Wearable, Neurally-Enhanced Augmented Reality System
David Goldberg, *Equinox Corporation, United States*; Jacob Vogelstein, *Johns Hopkins University APL, United States*; Diego Socolinsky, Lawrence Wolff, *Equinox Corporation, United States.*

Neurocognitive Patterns: Using Brain, Behavior, and Context to Infer User Intent
Webb Stacy, *Aptima, Inc., United States.*

Neurological Advances and Ethical/Legal Conundrums: Lessons from History
Cheryl Erwin, *University of Texas, United States.*

Particle Swarm Optimization-based Feature Selection for Brain-Computer Interfaces
Alexer Firpi, Francesco Tenore, Michael McLoughlin, Jacob Vogelstein, *Johns Hopkins University APL, United States.*

HCD S125

Human Centered Design

Usability and Design

Room: **Empire**

Chair(s): To be announced

Adapting User Interfaces by Analyzing Data Characteristics for Determining Adequate Visualizations
Kawa Nazemi, Dirk Burkhardt, Alexander Praetorius, Matthias Breyer, Arjan Kuijper, *Fraunhofer, Germany.*

Usability Tests for Improvement of 3D Navigation in Multiscale Environments
Tathiane Andrade, Daniel Trindade, Eduardo Silva, Alberto Raposo, Simone Barbosa, *PUC - Rio de Janeiro, Brazil.*

A Holistic Model for Integrating Usability Engineering and Software Engineering Enriched with Marketing Activities
Holger Fischer, Karsten Nebe, Florian Klompmaker, *University of Paderborn, Germany.*

Task Analysis for Behavioral Factors Evaluation in Work System Design
Lingyan Wang, Henry Lau, *The University of Hong Kong, Hong Kong.*

User-Oriented Graph Visualization Taxonomy: A Data-Oriented Examination of Visual Features
Kawa Nazemi, Matthias Breyer, Arjan Kuijper, *Fraunhofer, Germany.*

Expert-sided Workflow Data Acquisition by means of an Interactive Interview System
Daniel Ley, *Fraunhofer, Germany.*

Wednesday, 13 July 13:30 - 15:30

DUXU — Design, User Experience, and Usability

S126

Communication Issues and the User Experience: Branding, Content Design and Semiotics

Room: Manatee

Chair(s): Anthony Faiola, Davide Bolchini, *Indiana University, United States*.

The Fusing of "Paper-in-Screen": Reducing Mobile Prototyping Artificiality to Increase Emotional Experience
Davide Bolchini, Anthony Faiola, *Indiana University, United States*.

Modeling Users' Data Usage Experiences from Scientific Literature
Jian Zhang, Chaomei Chen, Michael S. Vogeley, *Drexel University, United States*.

A Study on the Expected Image and Relevant Design Techniques in Different Product-Use Stages
Yung-Chin Tsao, Brian Chen, Yen-Pang Yang, *Tatung University, Taiwan*.

Influencing Mechanism of Apparent Space Dimensions on Interface Aesthetics and Apparent Usability
Tian Lei, Yingbin Zhou, Xiang Li, *Huazhong University of Science and Technology, P.R. China*; Xiaoli Chen, *China University of Geosciences, P.R. China*.

A Conjoint Analysis of Attributes Affecting the Likelihood of Technology Use
Anna Pohlmeyer, *Technische Universitat Berlin, Germany*; Lucienne Blessing, *University of Luxembourg, Luxembourg*.

Socratic Dialogue in Design Education
Neil Matthiessen, *University of South Florida, United States*.

Talking to Strangers: Using Large Public Displays to Facilitate Social Interaction
Elisa Rubegni, Nemanja Memarovic, Marc Langheinrich, *Universita della Svizzera italiana, Switzerland*.

S127

Mobile Services and Devices

Room: Taylor

Chair(s): Jonathan Kies, *Qualcomm, Inc., United States*.

Mobile QWERTY User Research
Yat-Sang Hung, Sarena Yang, *Samsung Telecommunications America, United States*; Neung Eun Kang, *SAMSUNG Electronics, Korea*; Stephanie Vance, *Samsung Telecommunications America, United States*.

Mobile Web & Native Apps: How One Team Found a Happy Medium
Kathleen Buettner, Anna Simmons, *Intuit, Inc., United States*.

Approaching Warp Speed!: Examining the User Experience in the Age of 4G
Quinn Simpson, Sce Pike, *Citizen, United States*.

Oracle Mobile User Assistance Testing
Erika Webb, Ultan O'Broin, Ray Matsil, Laurie Pattison, Mindi Cummins, *Oracle, United States*.

Suggested Collaborative Learning Conceptual Architecture and Applications for Mobile Devices
Kwang Lee, Abdul Razaque, *University of Northern Virginia, United States*.

Photo Diaries – A Peek into a Mobile Worker's Life
Anthony Sampanes, *Cisco Systems, Inc., United States*; Michele Snyder, Lynn Rampoldi-Hnilo, Brent White, *Oracle, United States*.

An Experience Sampling System for Context-Aware Mobile Application Development
Jungsuk Seo, Seunghwan Lee, Geehyuk Lee, *Korea Advanced Institute of Science and Technology (KAIST), Korea*.

Wednesday, 13 July 16:00 - 18:00

HIMI — Human Interface and the Management of Information

S128

Security and Forensic Aspects of Human-Computer Interaction

Room: Lake

Chair(s): Pavel Ocenasek, *Brno University of Technology, Czech Republic*.

Analysis of Authentication Protocols with Scyter: Case Study
Pavel Ocenasek, *Brno University of Technology, Czech Republic*.

Routing Functionality in the Logic Approach for Authentication Protocol Design
Pavel Ocenasek, Jakub Hranac, *Brno University of Technology, Czech Republic*.

An Approach for Security Protocol Design Based on Zero-knowledge Primitives Composition
Pavel Ocenasek, *Brno University of Technology, Czech Republic*.

Constructing Phylogenetic Trees Based on Intra-Group Analysis of Human Mitochondrial DNA
Ivan Vogel, *Brno University of Technology, Czech Republic*; Frantisek Zedek, *Masaryk University, Czech Republic*; Pavel Ocenasek, *Brno University of Technology, Czech Republic*.

Exploring Informational Privacy Perceptions in the context of Online Social Networks: A Phenomenology Perspective
Emma Nuraihan Mior Ibrahim, *Universiti Teknologi MARA, Malaysia*.

Modelling Social Cognitive Theory to Explain Software Piracy Intention
Ameetha Garbharran, Andrew Thatcher, *University of the Witwatersrand, South Africa*.

HCI — Human-Computer Interaction

S129

Innovative Interaction Strategies

Room: Madison

Chair(s): Frode Eika Sandnes, *Oslo University College, Norway*.

Landmarks Detection to Assist the Navigation of Visually Impaired People
Paulo Costa, *IPL, Portugal*; Hugo Fernandes, *UTAD, Portugal*; Veronica Vasconcelos, *Polytechnic Institute of Coimbra, Portugal*; Paulo Coelho, *IPL, Portugal*; Joao Barroso, *UTAD, Portugal*; Leontios Hadjileontiadis, *Aristotle University of Thessaloniki, Greece*.

A Configurable Photo Browser Framework for Large Image Collections
Frode Eika Sandnes, *Oslo University College, Norway*.

Finding Suitable Candidates: The Design of a Mobile Volunteering Matching System
Wei-Chia Chen, Yun-Maw Cheng, *Tatung University, Taiwan*; Frode Eika Sandnes, *Oslo University College, Norway*; Chao-Lung Lee, *Tatung University, Taiwan*.

Enabling Efficient Browsing and Manipulation of Web Tables on Smartphone
Wenchang Xu, Yuanchun Shi, *Tsinghua University, P.R. China*.

Older User-Computer Interaction on the Internet: How Conversational Agents Can Help
Wi-Suk Kwon, Veena Chattaraman, Soo In Shim, *Auburn University, United States*; Hanan Alnizami, Juan Gilbert, *Clemson University, United States*.

An Efficient Document Browsing Method with Floating Diagram Window on Mobile Device
Yu Shibuya, Kazunobu Nagata, Kazuyoshi Murata, *Kyoto Institute of Technology, Japan*.

A Research of Interaction Strategy with Public Information Display
Youngkyu Jin, Jookyung Woo, Jongwoo Jung, Youngwan Seo, Juyoun Lee, *UX Center DMC R&D Center Samsung Electronics, Korea*; Amy Chung, *SAMSUNG Electronics, Korea*.

Parallel Sessions

S130

Gesture-based Interaction (II)

Room: **Lexington**

Chair(s): George Margetis, *Foundation for Research & Technology - Hellas (FORTH), Greece.*

A Low-cost Natural User Interaction Based on a Camera Hand-Gestures Recognizer
Mohamed Boulabiar, *Telecom-Bretagne, France*; Thomas Burger, Franck Poirier, *Universite de Bretagne-Sud, France*; Gilles Coppin, *Telecom-Bretagne, France.*

Hidden-Markov-Model-Based Hand Gesture Recognition Techniques Used for a Human-Robot Interaction System
Chin-Shyurng Fahn, Keng-Yu Chu, *National Taiwan University of Science and Technology, Taiwan.*

Upper Body Gesture Recognition for Human-Robot Interaction
Chi-Min Oh, Md. Zahidul Islam, Jun-Sung Lee, Chil-Woo Lee, *Chonnam National University, Korea*; In So Kweon, *Korea Advanced Institute of Science and Technology (KAIST), Korea.*

CornerPen: SmartPhone is the Pen
Bong-gyu Jang, MyongHee Lee, Gerard Kim, *Korea University, Korea.*

Virtual Mouse: A Low Cost Proximity-based Gestural Pointing Device
Sheng Kai Tang, Wen Chieh Tseng, Wei Wen Luo, Kuo Chung Chiu, Sheng Ta Lin, Yen Ping Liu, *ASUS Design Center, ASUSTeK Computer Inc., Taiwan.*

Niboshi for Slate Devices: a Japanese Input Method Using Multi-touch for Slate Devices
Gimpei Kimioka, Buntarou Shizuki, Jiro Tanaka, *University of Tsukuba, Japan.*

Using Pen-Based Computing in Technology for Health
Hyungsin Kim, Young Suk Cho, Ellen Yi-Luen Do, *Georgia Institute of Technology, United States.*

S131

User Interface Design Methods and Tools

Room: **Jade**

Chair(s): Mark Bachman, *University of California, Irvine, United States.*

Message Oriented Middleware for Flexible Wizard of Oz Experiments in HCI
Mirko Otto, Rafael Friesen, Dietmar Rosner, *University of Magdeburg, Germany.*

A Rapid Prototyping Tool for Interactive Device Development
Mark Merlo, Mark Bachman, *University of California, Irvine, United States.*

POLVO - Software for Prototyping of Low-fidelity Interfaces in Agile Development
Junia Goncalves, Caroline Santos, *Universidade Federal dos Vales do Jequitinhonha e Mucuri, Brazil.*

Enhancing Personas with their Main Scenarios
Alicia Valls Saez, Muriel Garreta-Domingo, Marta Lopez Reyes, *UOC - Universitat Oberta de Catalunya, Spain.*

A Reference Model for Adaptive Visualization Systems
Kawa Nazemi, Christian Stab, Arjan Kuijper, *Fraunhofer, Germany.*

Automatic Adaptation of User Workflows within Model-based User Interface Generation during Runtime on the Example of the SmartMote
Kai Breiner, Kai Bizik, Thilo Rauch, Marc Seissler, *University of Kaiserslautern, Germany*; Gerrit Meixner, *German Research Center for Artificial Intelligence (DFKI), Germany*; Philipp Diebold, *University of Kaiserslautern, Germany.*

S132

Capturing and Consolidating Design Knowledge

Room: **Fulton**

Chair(s): To be announced

Evaluating Usability of Web-based Electronic Government: Users' Perspective
Zhao Huang, Laurence Brooks, *Brunel University, United Kingdom.*

Axiomatic Design for Biometric Icons
Sheau-Farn Max Liang, Chien-Tsen Lin, *National Taipei University of Technology, Taiwan.*

Towards a Conceptual Framework for Interaction Design in the Pragmatic Web
Heiko Hornung, M. Cecilia Baranauskas, *University of Campinas (UNICAMP), Brazil.*

Objective and Subjective Measures of Visual Aesthetics of Website Interface Design: The Two Sides of the Coin
Ahamed Altaboli, Yingzi Lin, *Northeastern University, United States.*

The Effects of Content Type and Presentation Style on User Experiences of Multimedia Content on a Tablet PC
Kari Kallinen, Jan Kallenbach, Niklas Ravaja, *Aalto University, Finland.*

Studying the Role of Interactivity in Museums: Designing and Comparing Multimedia Installations
Pedro Campos, *University of Madeira and INESC-ID, Portugal*; Miguel Campos, Joao Pestana, *WowSystems, Lda., Portugal*; Joaquim Jorge, *INESC-ID, Portugal.*

An End User and Environment Field Study for an Inclusive Design of Consumer Products
Thomas Fiddian, Chris Bowden, *Royal National Institute for Deaf People, United Kingdom*; Mark Magennis, Antoinette Fernnell, Joshue O Connor, *National Council for the Blind of Ireland (NCBI), Ireland*; Pierre Kirisci, *University of Bremen, Germany*; Yehya Mohamad, *Fraunhofer, Germany*; Michael Lawo, *University of Bremen, Germany.*

EPCE S133

Engineering Psychology and Cognitive Ergonomics

Aeronautics and Space

Room: **Nassau**

Chair(s): Stephen Prior, *Middlesex University, United Kingdom*; Steven Landry, *Purdue University, United States*; Savita Verma, *NASA Ames, United States.*

Development of a Reconfigurable Protective System for Multi-Rotor UAS
Thomas Irps, Stephen Prior, Darren Lewis, *Middlesex University, United Kingdom.*

Optimizing Performance Variables for Small Unmanned Aerial Vehicle Co-Axial Rotor Systems
Jonathon Bell, Mantas Brazinskas, Stephen Prior, *Middlesex University, United Kingdom.*

A Testbed for Exploring Human-Robot Interaction with Unmanned Aerial and Ground Vehicles
Jaime Flores, Glenn Martin, *University of Central Florida, United States*; Paula Durlach, *U.S. Army Research Institute for the Behavioral and Social Sciences, United States.*

Test-Retest Reliability of CogGauge: A Cognitive Assessment Tool for SpaceFlight.
Matthew Johnston, Angela Carpenter, Kelly Hale, *Design Interactive, Inc., United States.*

Acceptability and Effects of Tools to Assist with Controller Managed Spacing in the Terminal Area
Lynne Martin, Michael Kupfer, *SJSU/NASA Ames Research Center, United States*; Everett Palmer, Joey Mercer, Todd Callantine, Thomas Prevot, *NASA Ames Research Center, United States.*

WEDNESDAY 16:00 - 18:00

Parallel Sessions

UAHCI

Universal Access in Human-Computer Interaction

S134

Designing Interfaces for In-vehicle Driver Support Systems - Issues under Consideration

Room: Palm Beach

Chair(s): Angelos Amditis, *Institute of Communications and Computer Systems, Greece.*

Monitoring User Distraction in a Car by Segmentation of Experimental Data
Tomas Macek, Martin Labsky, Jan Kleindienst, Hana Truskova, *IBM, Czech Republic.*

On-road Pilot Study on The Need for Integrated Interfaces of In-vehicle Driver Support Systems
Evangelia Portouli, Vasilis Papakostopoulos, Nicolas Marmaras, *National Technical University of Athens, Greece.*

Towards User-Centred Development of Integrated Information, Warning, and Intervention Strategies for Multiple ADAS in the EU Project interactIVe
Tobias Hesse, *German Aerospace Center (DLR), Germany*; Johan Engstrom, Emma Johansson, *Volvo Technology, Sweden*; Giuseppe Varalda, *Centro Ricerche Fiat, Italy*; Martin Brockmann, *Allround Team GmbH, Germany*; Amon Rambaldini, *Centro Ricerche Fiat, Italy*; Nicola Fricke, Frank Flemisch, Frank Koster, *German Aerospace Center (DLR), Germany*; Lena Kanstrup, *Volvo Technology, Sweden.*

Towards an integrated adaptive automotive HMI for the future
Angelos Amditis, Katia Pagle, *Institute of Communications and Computer Systems, Greece*; Gustav Markkula, *Volvo Technology, Sweden*; Luisa Andreone, *Centro Ricerche Fiat, Italy.*

Design of Human Computer Interfaces for Highly Automated Vehicles in the EU-Project HAVEit
Frank Flemisch, Anna Schieben, *German Aerospace Center (DLR), Germany*; Nadja Schomig, *Wurzburg Institute for Traffic Sciences, Germany*; Matthias Strauss, Stefan Lueke, *Continental Frankfurt, Germany*; Anna Heyden, *Volvo Technology, Sweden.*

S135

Aging and HCI

Room: Sarasota

Chair(s): Christopher Schlick, Nicole Jochems, *RWTH Aachen University, Germany.*

Age-Adapted Psychoacoustics: Target Group Oriented Sound Schemes for the Interaction with Telemedical Systems
Alexander Mertens, Philipp Przybysz, Alexander Gross, David Koch-Koerfges, Claudia Nick, Martin Kaethner, Christopher Schlick, *RWTH Aachen University, Germany.*

Age Dependent Differences in the Usage of a Desktop VR System for Air Force Mission Planning and Preparation
Carsten Winkelholz, Michael Kleiber, *Fraunhofer, Germany.*

Fitts' Law in Bivariate Pointing on Large Touch Screens: Age-differentiated Analysis of Motion Angle Effects on Movement Times and Error Rates
Sebastian Vetter, Jennifer Butzler, Nicole Jochems, Christopher Schlick, *RWTH Aachen University, Germany.*

Young by Design: Supporting Older Adults' Mobility and Home Technology Use through Universal Design and Instruction
Michael Sengpiel, *Humboldt-Universitat zu Berlin, Germany.*

Sense of Presence in a Robotic Telepresence Domain
Annica Kristoffersson, Silvia Coradeschi, *Orebro University, Sweden*; Kerstin Severinson Eklundh, *KTH Royal Institute of Technology, Sweden*; Amy Loutfi, *Orebro University, Sweden.*

S136

New Approaches to the Study of Web Accessibility

Room: Taylor

Chair(s): Helen Petrie, *University of York, United Kingdom.*

Results from Multi-dimensional Accessibility Assessment
Rogerio Bandeira, Rui Lopes, Luis Carrico, *University of Lisbon, Portugal.*

An Architecture for Multiple Web Accessibility Evaluation Environments
Nadia Fernandes, Rui Lopes, Luis Carrico, *University of Lisbon, Portugal.*

Remote Evaluation of WCAG 2.0 Techniques by Web Users with Visual Disabilities
Christopher Power, Helen Petrie, Andre Freire, David Swallow, *University of York, United Kingdom.*

Making Visual Maps Accessible to the Blind
Maria Claudia Buzzi, Marina Buzzi, Barbara Leporini, Loredana Martusciello, *Consiglio Nazionale delle Ricerche (CNR), Italy.*

Investigating Drag and Drop Techniques for Older People with Cognitive Impairment
Frederic Vella, Nadine Vigouroux, *IRIT, Universite Paul Sabatier, France*; Pierre Rumeau, *CHU Toulouse, France.*

A Concept for User-centered Development of Accessible User Interfaces for Industrial Automation Systems and Web Applications
Farzan Yazdi Motlagh, *University of Stuttgart, Germany*; Helmut Vieritz, *RWTH Aachen University, Germany*; Nasser Jazdi, *University of Stuttgart, Germany*; Daniel Schilberg, *RWTH Aachen University, Germany*; Peter Gohner, *University of Stuttgart, Germany*; Sabina Jeschke, *RWTH Aachen University, Germany.*

S137

Advances in Accessibility

Room: Empire

Chair(s): Alexandros Mourouzis, *Centre for Research and Technology Hellas (CERTH), Greece.*

A Unified Environment for Accessing a Suite of Accessibility Evaluation Facilities
Nikolaos Partarakis, Constantina Doulgeraki, Margherita Antona, *Foundation for Research & Technology - Hellas (FORTH), Greece*; Theofanis Oikonomou, Nikolaos Kaklanis, Konstantinos Votis, Grammati-Eirini Kastori, Dimitrios Tzovaras, *Centre for Research and Technology Hellas (CERTH), Greece.*

Advances in Game Accessibility from 2005 to 2010
Thomas Westin, *Stockholm University, Sweden*; Kevin Bierre, *Rochester Institute of Technology, United States*; Dimitris Grammenos, *Foundation for Research & Technology - Hellas (FORTH), Greece*; Michelle Hinn, *Pursuit of Happiness Foundation, United States.*

Access-a-WoW: Building an Enhanced World of Warcraft™ UI for Persons with Low Visual Acuity
G Michael Poor, Thomas Donahue, Martez Mott, Guy Zimmerman, Laura Leventhal, *Bowling Green State University, United States.*

Disable Workstation Development: a Multicompetence Approach to Human Behaviour Analysis
Giuseppe Andreoni, Fiammetta Costa, Carlo Frigo, Muschiato Sabrina, Esteban Pavan, Laura Scapini, Maximiliano Romero, *Politecnico di Milano, Italy.*

Website Design and Usability Assessment Implications from a Usability Study with Visually Impaired Users
Sarah Swierenga, Jieun Sung, Graham Pierce, Dennis Propst, *Michigan State University, United States.*

Comparative Study Between AZERTY-type and K-Hermes Virtual Keyboards Dedicated to Users with Cerebral Palsy
Yohan Guerrier, Maxime Baas, *Universite Lille Nord de France, France*; Christophe Kolski, *University of Valenciennes, France*; Franck Poirier, *Universite de Bretagne-Sud, France.*

eBooks: Accessibility, Limitations and Exceptions to Copyright - An Ongoing Debate
Ana Isabel Paraguay, *Officio Ergonomia S/C, Brazil.*

VMR S138

Virtual and Mixed Reality

"What's the Name of the Game? Does It Mean Anything To You?" - Maximizing the Learning Value of Serious Games and Virtual Worlds

Room: **Manatee**

Chair(s): Anya Andrews, *University of Central Florida, United States.*

Farming Education: A Case for Social Games for Learning
Peter Smith, *ADL Co-Lab, United States*; Alicia Sanchez, *Defense Acquisition University, United States.*

Reflected in a Liquid Crystal Display: Personalization and the Use of Avatars in Serious Games
Shan Lakhmani, Clint Bowers, *University of Central Florida, United States.*

Serious Games for Psychological Health Education
Anya Andrews, *University of Central Florida, United States.*

Patterns of Gaming Preferences and Serious Game Effectiveness
Katelyn Procci, James Bohnsack, Clint Bowers, *University of Central Florida, United States.*

Designing Augmented Reality Tangible Interfaces for Kindergarten Children
Pedro Campos, *University of Madeira and INESC-ID, Portugal*; Sofia Pessanha, *University of Madeira, Portugal.*

Tracking the UFO's Paths: Using Eye-Tracking for the Evaluation of Serious Games
Michael Kickmeier, Eva Hillemann, Dietrich Albert, *Graz University of Technology, Austria.*

IDGD S139

Internationalization, Design and Global Development

Trends of HCI in China

Room: **Park**

Chair(s): Hui Li, *Tsinghua University, P.R. China*; Hua Qin, *Beijing University of Civil Engineering and Architecture, P.R. China.*

Cross-Cultural Study on Shop-Floor Control System
Xiongfei Zhao, Hong Huang, *Corporate Technology, Siemens Ltd., P.R. China.*

Effects of Different Visual Feedback Forms on Eye Cursor's Stabilities
Xinyong Zhang, Wenxin Feng, *Renmin University of China, P.R. China*; Hongbin Zha, *Peking University, P.R. China.*

Motion Control with Intentions for Virtual Assembly
Jianfei Yu, *Beijing Aeronautical Technology Research Center, P.R. China*; Dan Zong, Chunpeng Li, Shihong Xia, Zhaoqi Wang, *Chinese Academy of Sciences, P.R. China.*

A Review of Driver Mental Workload in Driver-Vehicle-Environment System
Yutao Ba, Wei Zhang, *Tsinghua University, P.R. China.*

The Impact of Cultural Differences on Instant Messaging Communication in China and Germany
Hui Li, P.L. Patrick Rau, Andreas Hohmann, *Tsinghua University, P.R. China.*

Analysis of the Applied Pattern of Distributed Computing Used in Simulation
Song-feng Gao, Hua Qin, *Beijing University of Civil Engineering and Architecture, P.R. China.*

AC S140

Augmented Cognition

Public, Private and Industry Researchers: their Combined Role is a Key to Success in Advancing Augmented Cognition

Room: **Union**

Chair(s): Jefferson Grubb, *Naval Air Warfare Center Training Systems Division, United States.*

Today's Competitive Objective: Augmenting Human Performance
Kay Stanney, Kelly Hale, *Design Interactive, Inc., United States.*

Analysis of Multiple Physiological Sensor Data
Lauren Reinerman-Jones, Grant Taylor, *University of Central Florida, United States*; Keryl Cosenzo, *US Army Research Laboratory, United States*; Stephanie Lackey, *University of Central Florida, United States.*

Distributed Logging and Synchronization of Physiological and Performance Measures to Support Adaptive Automation Strategies
Daniel Barber, *University of Central Florida, United States*; Irwin Hudson, *US Army Research Laboratory, United States.*

Measuring the Effectiveness of Stress Prevention Programs in Military Personnel
Andrea Taylor, Sae Schatz, *University of Central Florida, United States.*

Augmented Cognition Methods for Evaluating Serious Game Based Insider Cyber Threat Detection Training
Terence Andre, *TiER1 Performance Solutions, United States*; Cali Fidopiastis, *University of Alabama, Birmingham, United States*; Tiffany Ripley, Anna Oskorus, Ryan Meyer, Robert Snyder, *TiER1 Performance Solutions, United States.*

Using Neurophysiological Data to Inform Feedback Timing: A Pilot Study
Jennifer Vogel-Walcutt, Julian Abich, *University of Central Florida, United States.*

DHM S141

Digital Human Modeling

Shape Analysis and its Applications

Room: **Hamilton**

Chair(s): Afzal Godil, *National Institute of Standards and Technology (NIST), United States*; Sudhakar Rajulu, *NASA Johnson Space Center, United States.*

An Automatic Method for Computerized Head and Facial Anthropometry
Jing-Jing Fang, Sheng-Yi Fang, *National Cheng Kung University, Taiwan.*

Development of Sizing Systems for Chinese Minors
Xin Zhang, *China National Institute of Standardization, P.R. China*; Yanyu Wang, *University of Science and Technology Beijing, P.R. China*; Linghua Ran, *China National Institute of Standardization, P.R. China*; Ailan Feng, Ketai He, *University of Science and Technology Beijing, P.R. China*; Taijie Liu, *China National Institute of Standardization, P.R. China*; Jianwei Niu, *University of Science and Technology Beijing, P.R. China.*

Automatic Face Feature Points Extraction
Dominik Rupprecht, Sebastian Hesse, Rainer Blum, *Fulda University of Applied Sciences, Germany.*

Cloth Modeling and Simulation: A Literature Survey
James Long, Katherine Burns, Jingzhou (James) Yang, *Texas Tech University, United States.*

The Effects of Landmarks and Training on 3D Surface Anthropometric Reliability and Hip Joint Center Prediction
Wen-Ko Chiou, *Chang Gung University, Taiwan*; Bi-Hui Chen, *Chihlee Institute of Technology, Taiwan*; Wei-Ying Chou, *Chang Gung University, Taiwan.*

Accelerated Real-Time Reconstruction of 3D Deformable Objects from Multi-View Video Channels
Holger Graf, Leon Hazke, Svenja Kahn, *Fraunhofer, Germany*; Cornelius Malerczyk, *University of Applied Science Friedberg-Giessen, Germany.*

Parallel Sessions

HCD S142

Human Centered Design

Holistic Prosthetics Technology for People with Multiple Disability

Room: Escambia

Chair(s): Noriaki Kuwahara, *Kyoto Institute of Technology, Japan.*

Holistic Prosthetic Approaches to the Hearing Handicapped People: Communicational Tools in Various Situations
Kazuyuki Kanda, *Chukyo University, Japan*; Tsutomu Kimura, *Toyota College of Technology, Japan*.

Cognitive Prostheses: Findings from Attempts to Model Some Aspects of Cognition
Norman Alm, *University of Dundee, United Kingdom*; Arlene Astell, *University of St Andrews, United Kingdom*; Gary Gowans, *University of Dundee, United Kingdom*; Maggie Ellis, *University of St Andrews, United Kingdom*; Richard Dye, Phillip Vaughan, Philippa Riley, *University of Dundee, United Kingdom*.

A Study on the Visibility of the Light Emitting Braille Block
Hiromi Fukuda, Noriaki Kuwahara, *Kyoto Institute of Technology, Japan*; Takao Suzuki, *Tanabe, CD., LTD, Japan*; Kazunari Morimoto, *Kyoto Institute of Technology, Japan*.

Expansion of the System of JSL-Japanese Electronic Dictionary -An Evaluation for the Compound Research System-
Tsutomu Kimura, *Toyota College of Technology, Japan*; Daisuke Hara, *Toyota Technical Institute, Japan*; Kazuyuki Kanda, *Chukyo University, Japan*; Kazunari Morimoto, *Kyoto Institute of Technology, Japan*.

Development of a Wearable Airbag for Preventing Fall Related Injuries
Toshiyo Tamura, *Chiba University, Japan*; Takumi Yoshimura, *Tokyo Metropolitan College of Industrial Technology, Japan*; Masaki Sekine, *Chiba University, Japan*; Mitsuo Uchida, *Prop Co., Japan*.

Human-centered Design in the Care of Immobile Patients
Thomas Laeubli, Roger Gassert, *ETH Zurich, Switzerland*; Masaru Nakaseko, *Kyoto Institute of Technology and Osaka Jikei Research Center of Health Care Management, Japan*.

Nonspeech Sound Design for a Hierarchical Information System
Rafa Absar, Catherine Guastavino, *McGill University, Canada*.

DUXU S143

Design, User Experience, and Usability

Usability in the Life Science Industry

Room: Dixie

Chair(s): Brigitte Herrmann, *Siemens AG, Healthcare Sector, Imaging & Therapy, Germany*.

Improved Usability through Internationalization
Carsten Witte, *Siemens AG, Germany*.

Terminological Precision — A Key Factor in Product Safety and Usability
Barbara Inge Karsch, *BIK Terminology - Terminology Consulting and Training, United States*; Gabriele Sauberer, *International Network for Terminology - TermNet, Austria*.

Development of an Augmented Feedback Application to Support Motor Learning after Stroke: Requirement Analysis
Simone Schmid, *Technische Universitat Berlin, Germany*.

2D vs. 3D Pain Visualization: User Preferences in a Spinal Cord Injury Cohort
Fotios Spyridonis, Gheorghita Ghinea, *Brunel University, United Kingdom*.

The Usability Evaluation of Web-based 3D Medical Image Visualization
Sittapong Settapat, *Shibaura Institute of Technology, Japan*; Tiranee Achalakul, *King Mongkut's University of Technology Thonburi (KMUTT), Thailand*; Michiko Ohkura, *Shibaura Institute of Technology, Japan*.

Analysis of Emergent Use for Wellbeing Service Innovation
Alexandros Yeratziotis, *Nelson Mandela Metropolitan University, South Africa*; Christian Sannemann, *University of Helsinki, Finland*; Johanna Viitanen, Marko Nieminen, *Aalto University, Finland*.

S144

Revisiting User Support

Room: Jackson

Chair(s): Emilie Gould, *State University of NY at Albany, United States.*

User Satisfaction of Ali Wangwang, an Instant Messenger Tool
Jie Gao, Zhenghua Zhang, *Taobao (China) Software Co., Ltd., P.R. China*.

Study of User Interface for Browsing Web Contents that Considers the Cognitive Features of Older Users
Masahiro Watanabe, Shunichi Yonemura, Ryo Hashimoto, Yoko Asano, *NTT Corporation, Japan*.

The Layout for the User-friendly Manual: Case Study on an Internet Set-up Manual
Momoko Nakatani, Takehiko Ohno, Yurika Katagiri, Ai Nakane, *NTT Corporation, Japan*; Shuji Hashimoto, *NTT Corporation / Waseda University, Japan*.

Smart User Assistance Based on Dynamic Model Composition
Rene Zilz, Peter Forbrig, *University of Rostock, Germany*.

Multi-Language Online Word Processor for Learners and the Visually Impaired
Shiblee Imtiaz Hasan, *BRAC University, Bangladesh*.

S145

Industrial User Experience

Room: Liberty

Chair(s): Sanjay Tripathi, *ABB Corporate Research, India.*

Lessons Learned from Using Personas & Scenarios for Requirements Specification of Next-generation Industrial Robots
Petra Bjorndal, Mikko Rissanen, *ABB Corporate Research, Sweden*; Steve Murphy, *ABB Discrete Automation and Motion, Robotics, Sweden*.

To Develop Viable Human Factors Engineering Methods for Improved Industrial Use
Jonas Andersson, Lars-Ola Bligard, Anna-Lisa Osvalder, *Chalmers University of Technology, Sweden*; Mikko Rissanen, *ABB Corporate Research, Sweden*; Sanjay Tripathi, *ABB Corporate Research, India*.

Ethnography, Ethnography or Ethnography? What Happens when the Same Word Means Different Things to Different People?
Sasanka Prabhala, Daria Loi, Subhashini Ganapathy, *Intel Corporation, United States*.

Training Designers of Real-World Products: Scenario Approach in Industrial Design Curriculum
Yu-Chun Hsu, *Chang Gung University, Taiwan*.

The Inmates are Still Running the Asylum: How to Share a Design Vision with Engineers
Uday Gajendar, Colin Johnson, *Citrix Systems, Inc., United States*.

Exploring the Learning Problems and Resources Usage of Undergraduate Industrial Design Students in Design Studio
Wenzhi Chen, *Chang Gung University, Taiwan*; Hsien-Hui Tang, *National Taiwan University of Science and Technology, Taiwan*.

Enterprise UX Design in China
Dongyuan Li, *Huawei Corporation, P.R. China*.

EHAWC S146

Ergonomics and Health Aspects of Work with Computers

Technology Mediated Collaboration

Room: **Hamilton**

Chair(s): Enid Montague, *University of Wisconsin-Madison, United States*.

Healthcare & Security: Understanding & Evaluating the Risks
Aubrey Baker, Laurian Vega, Tom DeHart, Steve Harrison, *Virginia Tech, United States*.

Improving the Online Video Chat Experience
Asim Kadav, Chelsea Wanta, Nai-Wen Claire Yu, Kyung Lee, Enid Montague, *University of Wisconsin-Madison, United States*.

DeskTop: A Design Guideline to Creating a Multi-Touch Desk Prototype
Jerome McClendon, Joshua Ekandem, Austen Hayes, *Clemson University, United States*; Amy Ulinski, *University of Wyoming, United States*; Larry Hodges, *Clemson University, United States*.

All in Hand Keyboard Designing and Researching Based on Ergonomics
Zhenya Wang, Heshan Liu, Song Hao, Yandong Wang, *Shandong University, P.R. China*.

HIMI S147 S148

Human Interface and the Management of Information

Relationality Design

Room: **Manatee**

Chair(s): Katsunori Shimohara, *Doshisha University, Japan*.

Relationality-Oriented Systems Design For Emergence, Growth, and Operation of Relationality
Takuya Kajio, Manami Watanabe, Ivan Tanev, Katsunori Shimohara, *Doshisha University, Japan*.

Local Communication Media Based on Concept of Media Biotope
Hidetsugu Suto, Makiba Sakamoto, *Muroran Institute of Technology, Japan*.

Interactive e-Hon as Parent-child Communication Tool
Kaoru Sumi, *Future University Hakodate, Japan*; Mizue Nagata, *Jumonji University, Japan*.

Process in Establishing Communication in Collaborative Creation
Mamiko Sakata, Keita Miyamoto, *Doshisha University, Japan*.

Representation of Decision Making Process in Music Composition based on Hypernetwork Model
Tetsuya Maeshiro, Shin-ichi Nakayama, *University of Tsukuba, Japan*; Midori Maeshiro, *Federal University of Rio de Janeiro, Brazil*.

What Kinds of Human Negotiation Skill Can be Acquired by Changing Negotiation Order of Bargaining Agents?
Keiki Takadama, Atsushi Otaki, Keiji Sato, Hiroyasu Matsushima, Masayuki Otani, Yoshihiro Ichikawa, Kiyohiko Hattori, Hiroyoki Sato, *The University of Electro-Communications, Japan*.

Comparison between Mathematical Complexity and Human Feeling
Masashi Okubo, *Doshisha University, Japan*; Akiya Togo, *Nihon Unisys Co. Ltd, Japan*; Shogo Takahashi, *Doshisha University, Japan*.

Access to Information

Room: **Jade**

Chair(s): Eugenius Loos, *University of Amsterdam, Netherlands*.

Interacting with Semantics and Time
Christian Stab, Kawa Nazemi, Matthias Breyer, Dirk Burkhardt, Arjan Kuijper, *Fraunhofer, Germany*.

A Qualitative Study of Similarity Measures in Event-Based Data
Katerina Vrotsou, Camilla Forsell, *Linkoping University, Sweden*.

Comparison Analysis for Text Data by Using FACT-Graph
Ryosuke Saga, Seiko Takamizawa, Kodai Kitami, *Kanagawa Institute of Technology, Japan*; Hiroshi Tsuji, *Osaka Prefecture University, Japan*; Kazunori Matsumoto, *Kanagawa Institute of Technology, Japan*.

User Interface and Information Management of Scenarios
Robert Louden, Matt Fontaine, Glenn Martin, Jason Daly, Sae Schatz, *University of Central Florida, United States*.

An Investigation for Simplification of Information Design for the Roadmap
Kuang-Chih Lo, Chi-Shiung Thzeng, *National Yunlin University of Science and Technology, Taiwan*.

Knowledge in Digital Decision Support System
Erika Matsak, *Tallinn University, Estonia*; Peeter Lorents, *Cooperative Cyber Defence Centre of Excellence, Estonia*.

HCI S149

continues ▶▶

Human-Computer Interaction

Mobile Interaction

Room: **Jackson**

Chair(s): Yihsiu Chen, *Verizon Wireless, United States*

Computer Support of Team Work on Mobile Devices
Hilko Donker, Malte Blumberg, *Technische Universitat Dresden, Germany*.

Integrated Context-Aware and Cloud-based Adaptive Home Screens for Android Phones
Tor-Morten Gronli, *Norwegian School of IT, Norway*; Jarle Hansen, Gheorghita Ghinea, *Brunel University, United Kingdom*.

Using a Smart Phone for Information Rendering in Computer-Aided Surgery
Gael Le Bellego, Marek Bucki, *UJF - Grenoble 1, France*; Ivan Bricault, *UJF - Grenoble 1 / CHU Grenoble, France*; Jocelyne Troccaz, *UJF - Grenoble 1, France*.

Safe-in-Place Awareness GPS System with Distance-Based and Duration-Based Notification Control
Chi Chu, *China University of Technology, Taiwan*; Gene Chu, *National Taiwan Normal University, Taiwan*.

ProJest: Enabling Higher Levels of Collaboration Using Today's Mobile Devices
Babak Forutanpour, Jianfeng Ren, *Qualcomm, United States*.

Imaged based Codes Performance Comparison for Mobile Environments
Jong-Hoon Seo, Ji-Hye Choi, Tack-Don Han, *Yonsei University, Korea*.

THURSDAY 08:00 - 10:00

HCI S150

HCI in the Physical, Architectural and Cultural Environment

Room: **Taylor**

Chair(s): To be announced

GooGreen - Towards Increasing the Environmental Awareness of Households
Ruud Mattheij, *Tilburg University, Netherlands*; Lindsy Szilvasi, *Utrecht University, Netherlands*; Lorraine De Beer, Kartini Rakiman, Suleman Shahid, *Tilburg University, Netherlands*.

Blowing Light: Green-Based Interaction Design
Yu-Chun Annester Huang, Chih-Chieh Tsai, Teng-Wen Chang, Pen-Yan Tsai, Tien-Hsin Hung, Jai-Jung Chen, *National Yunlin University of Science and Technology, Taiwan*.

TiMBA – Tangible User Interface for Model Building and Analysis
Chih-Pin Hsiao, *Georgia Institute of Technology, United States*; Brian Johnson, *University of Washington, United States*.

Video Interaction Mechanism in Performance Space - Performers, Performing Space vs. Audiences
PaoShu Wang, Yinghsiu Huang, *Tunghai University, Taiwan*.

Restoration support system for a historic textile market using virtual environment
Michiko Ohkura, Mizuki Konuma, Yuri Kogure, Sayaka Tanaka, Hitomi Ei, Akiko Sakai, Takashi Ishidou, Yoko Watanabe, *Shibaura Institute of Technology, Japan*.

S151

Interacting with the World Wide Web

Room: **Union**

Chair(s): To be announced

Development of Web-based Voice Interface to Identify Child Users Based on Automatic Speech Recognition System
Ryuichi Nisimura, Shoko Miyamori, Lisa Kurihara, Hideki Kawahara, Toshio Irino, *Wakayama University, Japan*.

Categorize Web Sites based on Design Issues
Amin Abolghasem Rasooli, *University of Tehran / University of Rostock, Iran*; Fattaneh Taghiyareh, *University of Tehran, Iran*; Peter Forbrig, *University of Rostock, Germany*.

Shopping Cart Interactive Program (SCIP)
Cyndi Wiley, Emmanuel Saka, Stefan Tauber, Sunghyun Kang, *Iowa State University, United States*.

An Avatar-Based Help System for Web-Portals
Helmut Lang, Christian Mosch, Bastian Boegel, David M. Benoit, Wolfgang Minker, *Ulm University, Germany*.

Socio Economic Psycho Knowledge Based Intelligent Agents for Automated e-Commerce Negotiation
P. Vijayaragavan, *Jawaharlal Nehru Technological University Kakinada, India*; R. Ponnusamy, *AVIT - Vinayaka Missions University, India*.

User Experience of Social Bookmarking Tools
Enric Mor, Nuria Ferran, Muriel Garreta-Domingo, Juan Antonio Mangas Forner, *UOC - Universitat Oberta de Catalunya, Spain*.

S152

Spatial Interaction Design (II)

Room: **Lexington**

Chair(s): Teng-Wen Chang, *National Yunlin University of Science and Technology, Taiwan*.

Self Replicating Robotic Strategies as a Catalyst for Autonomous Architectural Construction
Michael Fox, *Cal Poly, Pomona, United States*.

Interaction Design Teaching Method Design
Chenwei Chiang, Kiyoshi Tomimatsu, *Kyushu University, Japan*.

Reacting with Care: The Hybrid Interaction Types in a Sensible Space
Guo-Jhen Yu, Teng-Wen Chang, *National Yunlin University of Science and Technology, Taiwan*.

Express Yourself: Designing Interactive Products with Implicitness to Improve Social Interaction
Huang-Ming Chang, *Eindhoven University of Technology, Netherlands*; Rung-Huei Liang, *National Taiwan University of Science and Technology, Taiwan*.

Designing a Better Morning: A Study on Large Scale Touch Interface Design
Onur Asan, Mark Omernick, Dain Peer, Enid Montague, *University of Wisconsin-Madison, United States*.

EPCE S153

Engineering Psychology and Cognitive Ergonomics

Driver Measurement and Sensing

Room: **Nassau**

Chair(s): Yukiyo Kuriyagawa, *Nihon University, Japan*.

Estimation of Driver's Arousal State using Multi-dimensional Physiological Indices
Mieko Ohsuga, Yoshiyuki Kamakura, Yumiko Inoue, *Osaka Institute of Technology, Japan*; Yoshihiro Noguchi, Keiji Shimada, *National Institute of Advanced Industrial Science & Technology (AIST), Japan*; Masami Mishiro, *Asahi Kasei Corp., Japan*.

The Influence of False and Missing Alarms of Safety System on Drivers' Risk-taking Behavior
Takayuki Masuda, *Railway Technical Research Institute, Japan*; Shigeru Haga, Azusa Aoyama, Hiroki Takahashi, Gaku Naito, *Rikkyo University, Japan*.

Facial Expression Measurement for Detecting Driver Drowsiness
Satori Hachisuka, Kenji Ishida, Takeshi Enya, *DENSO Corporation, Japan*; Masayoshi Kamijo, *Shinshu University, Japan*.

Influence of Brightness and Traffic Flow on Driver's Eye-Fixation-Related Potentials
Yoshihisa Terada, Koji Morikawa, *Panasonic Corporation, Japan*; Yuji Kawanishi, *Keio University, Japan*; YongWook Jeon, *Ajou University, Korea*; Tatsuru Daimon, *Keio University, Japan*.

Study on Driving Performance of Aged Drivers at the Intersections Compared with Young Drivers
Seunghee Hong, *Hanbat National University / Kagawa University, Korea*; Byungchan Min, *Hanbat National University, Korea*; Shun'ichi Doi, *Kagawa University, Japan*.

UAHCI

S154	S155	S156	S157
Camera-based Interfaces for People with Disabilities *Room:* **Dixie** Chair(s): Margrit Betke, *Boston University, United States*.	**Mobile User Interaction** *Room:* **Lake** Chair(s): Thomas Alexander, *Fraunhofer, Germany*.	**Behavior Computer Animation, Communicability and Education for All** *Room:* **Sarasota** Chair(s): Francisco Cipolla-Ficarra, *ALAIPO / AINCI, Italy*.	**Functional Modeling and Rehabilitation (I)** *Room:* **Park** Chair(s): Jue Wang, *Xi'an Jiaotong University, P.R. China*.
Camera Canvas: Image Editing Software for People with Disabilities Christopher Kwan, Margrit Betke, *Boston University, United States*. **Adaptive Mouse-replacement Interface Control Functions for Users with Disabilities** John Magee, Samuel Epstein, Eric Missimer, Christopher Kwan, Margrit Betke, *Boston University, United States*. **An Information Theoretic Mouse Trajectory Measure** Samuel Epstein, Eric Missimer, Margrit Betke, *Boston University, United States*. **AVIN (Assisted Visual Interactive Notepad): A Novel Interface Design to Expedite the Eye Writing Experience** Xianjun Sam Zheng, Stuart Goose, *Siemens Corporate Research, United States*; Joeri Kiekebosch, *Siemens Corporate Research, Netherlands*; James Lin, *Siemens Corporate Research, United States*. **Interpreting 3D Faces for Augmented Human-Computer Interaction** Marinella Cadoni, Enrico Grosso, Andrea Lagorio, Massimo Tistarelli, *University of Sassari, Italy*.	**Evaluation of a Mobile AR Tele-maintenance System** Michael Kleiber, Thomas Alexander, *Fraunhofer, Germany*. **A System for Enhanced Situation Awareness with Outdoor Augmented Reality** Jan Neuhofer, Thomas Alexander, *Fraunhofer, Germany*. **Experimental Evaluations of Touch Interaction Considering Automotive Requirements** Andreas Haslbeck, Severina Popova, Michael Krause, Katrina Pecot, Jurgen Mayer, Klaus Bengler, *Technische Universitat Munchen, Germany*. **Mobile Interfaces for Better Living: Supporting Awareness in a Smart Home Environment** Denis Gracanin, Scott McCrickard, *Virginia Tech, United States*; Arthur Billingsley, Roosevelt Cooper, Tavon Gatling, Erik Irvin-Williams, Felicia Osborne, Felicia Doswell, *Norfolk State University, United States*. **BrailleTouch: Mobile Texting for the Visually Impaired** Brian Frey, Caleb Southern, Mario Romero, *Georgia Institute of Technology, United States*. **Enhancing Mobile Interaction using WLAN Proximity** Wolfgang Narzt, Heinrich Schmitzberger, *Johannes Kepler University of Linz, Austria*. **Development of Mobile Evacuation Guides for Travellers and Rescue Personnel** Viveca Jimenez Mixco, *Universidad Politecnica de Madrid, Spain*; Jan Paul Leuteritz, *Fraunhofer / University of Stuttgart, Germany*; Eugenio Gaeta, Maria Fernanda Cabrera-Umpierrez, Maria Teresa Arredondo, *Universidad Politecnica de Madrid, Spain*; Harald Widlroither, *Fraunhofer / University of Stuttgart, Germany*; Mary Panou, *Centre for Research and Technology Hellas (CERTH), Greece*.	**Behaviour Computer Animation, Communicability and Education for All** Francisco Cipolla-Ficarra, *ALAIPO / AINCI, Italy*; Jacqueline Alma, *Universidad Nacional de La Pampa, Argentina*; Miguel Cipolla-Ficarra, *ALAIPO / AINCI, Italy*. **On Interactive Interfaces for Learning Chinese Character Writing Online** Manlai You, Yu-Jie Xu, Cherng Chin, *National Yunlin University of Science and Technology, Taiwan*. **The Effect of a GPS on Learning with regards to Performance and Communication in Municipal Crisis Response** Helena Granlund, *Santa Anna IT Research Institute / Swedish Defence Research Agency, Sweden*; Rego Granlund, *Santa Anna IT Research Institute, Sweden*; Nils Dahlback, *Linkoping University, Sweden*. **mGuides, Design and Usability of a Mobile System to Assist Learning in Critical Situations** Jaime Sanchez, Matias Espinoza, *University of Chile, Chile*. **Personalization in Mobile Learning for People with Special Needs** Saeed Zare, *University of Bremen, Germany*. **Gesture-based User Interfaces for Public Spaces** Andreas Kratky, *University of Southern California, Los Angeles, United States*.	**Adaboost with SVM-based Classifier for the Classification of Brain Motor Imagery Tasks** Jue Wang, Lin Gao, Haoshi Zhang, Jin Xu, *Xi'an Jiaotong University, P.R. China*. **Double Visual Feedback in the Rehabilitation of Upper LIMB** Enchen Liu, Jianfeng Sui, Linhong Ji, *Tsinghua University, P.R. China*. **Novel Human-centered Rehabilitation Robot with Biofeedback for Training and Assessment** Runze Yang, Linhong Ji, Hongwei Chen, *Tsinghua University, P.R. China*. **Upper Limb Contralateral Physiological Characteristic Evaluation for Robot-assisted Post Stroke Hemiplegic Rehabilitation** Lap Nam Wong, Qun Xie, Linhong Ji, *Tsinghua University, P.R. China*. **Designing Interactive Pill Reminders for Older Adults: a Formative Study** Sepideh Ansari, *Indiana University, United States*. **Detection of Wheelchair User Activities Using Wearable Sensors** Ding Dan, Shivayogi Hiremath, Younghyun Chung, Rory Cooper, *University of Pittsburgh, United States*.

Parallel Sessions

VMR S158

Virtual and Mixed Reality

Ubiquitous Virtual Reality

Room: Escambia

Chair(s): Woontack Woo, *Gwangju Institute of Science and Technology (GIST), Korea*.

Meta Cookie+: An Illusion-based Gustatory Display
Takuji Narumi, Shinya Nishizaka, Takashi Kajinami, Tomohiro Tanikawa, Michitaka Hirose, *The University of Tokyo, Japan*.

ClearSpace: Mixed Reality Virtual Teamrooms
Alex Hill, Mathew Bonner, Blair MacIntyre, *Georgia Institute of Technology, United States*.

Social Augmented Reality for Sensor Visualization in Ubiquitous Virtual Reality
Youngho Lee, Jongmyung Choi, *Mokpo National University, Korea*; Sehwan Kim, *Gwangju Institute of Science and Technology (GIST), Korea*; Seunghun Lee, *Korea Aerospace Research Institute, Korea*; Say Jang, *SAMSUNG Electronics, Korea*.

Foundation of a New Digital Ecosystem for u-Content: Needs, Definition, and Design
Yoosoo Oh, Sebastien Duval, *Gwangju Institute of Science and Technology (GIST), Korea*; Sehwan Kim, *WorldViz, Korea*; Hyoseok Yoon, Taejin Ha, Woontack Woo, *Gwangju Institute of Science and Technology (GIST), Korea*.

A Vision-Based Mobile Augmented Reality System for Baseball Games
Seong-Oh Lee, Sang Chul Ahn, Jae-In Hwang, Hyoung-Gon Kim, *Korea Institute of Science and Technology (KIST), Korea*.

Visualization and Management of u-Contents for Ubiquitous VR
Kiyoung Kim, Jonghyun Han, Changgu Kang, Woontack Woo, *Gwangju Institute of Science and Technology (GIST), Korea*.

Camera-based In-situ 3D Modeling Techniques for AR Diorama in Ubiquitous Virtual Reality
Atsushi Umakatsu, Hiroyuki Yasuhara, Tomohiro Mashita, Kiyoshi Kiyokawa, Haruo Takemura, *Osaka University, Japan*.

AC S159

Augmented Cognition

Operational Neuroscience

Room: Palm Beach

Chair(s): Monique Beaudoin, *Strategic Analysis Inc., United States*.

Operational Neuroscience: Neuroscience Research and Tool Development to Support the Warfighter
Monique Beaudoin, *Strategic Analysis Inc., United States*; Dylan Schmorrow, *United States Navy, United States*.

Non-Invasive Functional Brain Biomarkers for Cognitive-Motor Performance Assessment: Towards New Brain Monitoring Applications
Rodolphe Gentili, *University of Maryland, United States*.

Exploring New Methodologies for the Analysis of Functional Magnetic Resonance Imaging (fMRI) Following Closed-Head Injuries
Peter Walker, *Naval School of Aviation Safety, United States*; Ian Davidson, *University of California, Davis, United States*.

Modeling Pharmacokinetics and Pharmacodynamics on a Mobile Device to Help Caffeine Users
Frank Ritter, Kuo-Chuan (Martin) Yeh, *Pennsylvania State University, United States*.

Behavioral and Brain Dynamics of Team Coordination Part I: Task Design
Emmanuelle Tognoli, Attila Kovacs, Benjamin Suutari, *Florida Atlantic University, United States*; Daniel Afergan, *Strategic Analysis Inc., United States*; Joe Coyne, Gregory Gibson, *Naval Research Laboratory, United States*; Roy Stripling, *Office of Naval Research, United States*; J.A. Scott Kelso, *Florida Atlantic University, United States*.

Behavioral and Brain Dynamics of Team Coordination Part II: Neurobehavioral Performance
Emmanuelle Tognoli, Attila Kovacs, Benjamin Suutari, *Florida Atlantic University, United States*; Daniel Afergan, *Strategic Analysis Inc., United States*; Joe Coyne, Gregory Gibson, *Naval Research Laboratory, United States*; Roy Stripling, *Office of Naval Research, United States*; J.A. Scott Kelso, *Florida Atlantic University, United States*.

Advances and Challenges in Signal Analysis for Single Trial P300-BCI
Kun Li, Vanitha Narayan Raju, Ravi Sankar, Yael Arbel, Emanuel Donchin, *University of South Florida, United States*.

HCD S160

Human Centered Design

The Home and the Mobile Context

Room: Liberty

Chair(s): Ebba Thora Hvannberg, *University of Iceland, Iceland*.

Possibilities for Cultural Customization of Mobile Communication Devices: The Case of Iranian Mobile Users
Bijan Aryana, Casper Boks, *Norwegian University of Science and Technology, Norway*; Azadeh Navabi, *Chalmers University of Technology, Sweden*.

Guideline Development of Mobile Phone Design for Preventing Child Abuse
Joon Bin Im, Eui-Chul Jung, Jung Yoon Yang, *Yonsei University, Korea*.

Adjustable Interactive Rings for iDTV: First Results of an Experiment with End-Users
Leonardo Miranda, Heiko Hornung, M. Cecilia Baranauskas, *University of Campinas (UNICAMP), Brazil*.

Scientometric Analysis of Research in Smart Clothing: State of the Art and Future Direction
Kyeyoun Choi, Huiju Park, *Oklahoma State University, United States*; Eui-Seob Jeong, *Korea Institute of Science and Technology Information (, Korea*; Semra Peksoz, *Oklahoma State University, United States*.

Human Affordance as Life-Log for Environmental Simulations
Masayuki Ihara, Minoru Kobayashi, *NTT Corporation, Japan*; Takahiro Yoshioka, *Kyushu University, Japan*.

Bridging the Social Media Usage Gap from Old to New: an Elderly Media Interpersonal and Social Research in Taiwan
Shih-Hsun Lin, Wen Huei Chou, *National Yunlin University of Science and Technology, Taiwan*.

DUXU S161

Design, User Experience, and Usability

Methods and Tools for Assessing and Enhancing the User Experience

Room: Madison

Chair(s): Federico Botella, *Miguel Hernandez University of Elche, Spain*.

Making the Design Process More Usable: Aligning Design with User Performance
Roberto Champney, Christina Kokini, Kay Stanney, *Design Interactive, Inc., United States*.

Using Interaction Patterns in Heuristic Evaluation
Federico Botella, Jose Gallud, *Miguel Hernandez University of Elche, Spain*; Ricardo Tesoriero, *University of Castilla-La Mancha, Spain*.

Personas on the Move: Making Personas for Today's Mobile Workforce
Michele Snyder, *Oracle, United States*; Anthony Sampanes, *Cisco Systems, Inc., United States*; Brent White, Lynn Rampoldi-Hnilo, *Oracle, United States*.

Classification of Interactive Systems Components Enables Planning Heuristic Evaluation Easier.
Llucia Masip, Marta Oliva, Toni Granollers, *University of Lleida, Spain*.

Scenario and Task Based Interview to Evaluate Usability of Computer Assisted Data Collection
Luiz Agner, Patricia Tavares, *IBGE - Instituto Brasileiro de Geografia e Estatistica, Brazil*; Simone Bacellar Leal Ferreira, *IBGE - Instituto Brasileiro de Geografia e Estatistica / UNIRIO, Brazil*.

Evaluating Ubiquitous Media Usability Challenges - Content Transfer and Channel Switching Delays
Alexandre Fleury, Jakob Schou Pedersen, Lars Bo Larsen, *Aalborg University, Denmark*.

Environmental Affordances as a Way to Help in the Design of Videogame Worlds
Elisangela Vilar, Francisco Rebelo, Paulo Noriega, Luis Teixeira, *Technical University of Lisbon, Portugal*.

EHAWC S162

Ergonomics and Health Aspects of Work with Computers

Quality of Working Life

Room: Madison

Chair(s): Eric Brangier, *University Paul Verlaine of Metz, France*.

Human-Computer Interaction in Office Work: Evaluation of Interaction Patterns Using Office Equipment and Software During Data Entry and Navigation
Ernesto Filgueiras, *Beira Interior University, Portugal*; Francisco Rebelo, Fernando Moreira da Silva, *Technical University of Lisbon, Portugal*.

Management Standardisation versus Quality of Working Life
Przemyslaw Drozyner, Pawel Mikolajczak, Jaroslaw Szuszkiewicz, *University of Warmia and Mazury, Poland*; Malgorzata Jasiulewicz-Kaczmarek, *Poznan University of Technology, Poland*.

Beyond the Technology Acceptance Model: Elements to Validate the Human-Technology Symbiosis Model
Eric Brangier, Sonia Hammes-Adele, *University Paul Verlaine of Metz, France*.

Is the Presence of a Companion Animal Dog Beneficial for Computer Operators?
Rie Takeshima, Iiji Ogawa, *Teikyo University of Science, Japan*.

Preventive and Pro-active Ergonomics Influence on Maintenance Excellence Level
Malgorzata Jasiulewicz-Kaczmarek, *Poznan University of Technology, Poland*; Przemyslaw Drozyner, *University of Warmia and Mazury, Poland*.

The Interaction Effect of Posture and Psychological Stress on Neck-shoulder Muscle Activity in Typing: A Pilot Study
Wei-Ying Chou, *Chang Gung University, Taiwan*; Bi-Hui Chen, *Chihlee Institute of Technology, Taiwan*; Wen-Ko Chiou, *Chang Gung University, Taiwan*.

Analysis on Flight Fatigue Risk and the Systematic Solution
Lei Wang, Ruishan Sun, *Civil Aviation University of China, P.R. China*.

HIMI S163 S164

Human Interface and the Management of Information

Embodied Interaction and Communication

Room: Escambia

Chair(s): Tomio Watanabe, *Okayama Prefectural University, Japan*.

Hand Gesture-based Manipulation of a Personalized Avatar Robot in Remote Communication
Teruaki Ito, *The University of Tokushima, Japan*.

Support for Generation of Sympathetic Embodied Awareness: Measurement of Hand Contact Improvisation under Load Fluctuation Stress
Takabumi Watanabe, Yoshiyuki Miwa, Go Naito, Norikazu Matsushima, *Waseda University, Japan*; Hiroko Nishi, *Toyo Eiwa University, Japan*.

Utilization of Shadow Media - Supporting Co-Creation of Bodily Expression Activity in a Group -
Koji Iida, Shiroh Itai, *Waseda University, Japan*; Hiroko Nishi, *Toyo Eiwa University, Japan*; Yoshiyuki Miwa, *Waseda University, Japan*.

Real-time and Interactive Rendering for Translucent Materials such as Human Skin
Hiroyuki Kubo, *Waseda University, Japan*; Yoshinori Dobashi, *Hokkaido University, Japan*; Shigeo Morishima, *Waseda University, Japan*.

A Virtual Audience System for Enhancing Embodied Interaction Based on a Conversational Activity
Yoshihiro Sejima, *Yamaguchi University, Japan*; Yutaka Ishii, Tomio Watanabe, *Okayama Prefectural University, Japan*.

Balance Ball Interface for Performing Arts
Tomoyuki Yamaguchi, Tsukasa Kobayashi, *Waseda University, Japan*; Shuji Hashimoto, *NTT Corporation / Waseda University, Japan*.

Toward Creating Human-Centric Services in Service Engineering Design

Room: Jackson

Chair(s): Sakae Yamamoto, *Tokyo University of Science, Japan*; Hirohiko Mori, *Tokyo City University, Japan*.

Measurement and Evaluation in Service Engineering
Sakae Yamamoto, *Tokyo University of Science, Japan*; Hiroyuki Miki, *Oki Electric Ind. Co., Ltd., Japan*; Hirohiko Mori, *Tokyo City University, Japan*.

Designing Peripheral Communication Services for Families Living-apart: Elderly Persons and Family
Yosuke Kinoe, Mihoko Noda, *Hosei University, Japan*.

Connecting Envisioning Process to User Interface Design Process
Naotake Hirasawa, *Otaru University of Commerce, Japan*; Shinya Ogata, *U'eyes Design Inc., Japan*; Kiko Yamada-Kawai, *Otaru University of Commerce, Japan*.

Methods for Service Sciences from Visualization Points
Hiroyuki Miki, *Oki Electric Ind. Co., Ltd., Japan*; Naotsune Hosono, *Oki Consulting Solutions Co., Ltd., Japan*; Sakae Yamamoto, *Tokyo University of Science, Japan*.

Information Technology Services Industry and Job Design
Yoshihiko Saitoh, *IBM, Japan*.

Some Issues toward Creating Human-Centric Services
Hirohiko Mori, *Tokyo City University, Japan*.

Development of a System for Proactive Information Service
Myon-Woong Park, *Korea Institute of Science and Technology (KIST), Korea*; Soo-Hong Lee, *Yonsei University, Korea*; Young-Tae Sohn, Jae Kwan Kim, Ilju Bae, *Korea Institute of Science and Technology (KIST), Korea*; Jae-Kwon Lim, *Yonsei University, Korea*.

HCI S165

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Human-Computer Interaction

Modeling Interaction

Room: Dixie

Chair(s): Stefano Levialdi Ghiron, *Sapienza, Uniersity of Rome, Italy*.

Modeling the Rhetoric of Human-Computer Interaction
Iris Howley, Carolyn Penstein Rose', *Carnegie Mellon University, United States*.

Differentiating Between Successful and Less Successful Products by Using MAInEEAC - A Model for Interaction Characterization
Steffen Hess, Andreas Maier, Marcus Trapp, *Fraunhofer, Germany*.

Model-based Ubiquitous Interaction Concepts and Contexts in Public Systems
Thomas Schlegel, Christine Keller, *Technische Universitat Dresden, Germany*.

Complex Components Abstraction in Graphical User Interfaces
Pedro Teixeira-Faria, *Polytechnic Institute of Viana do Castelo, Portugal*; Javier Rodeiro Iglesias, *University of Vigo, Spain*.

Giving UI Developers the Power of UI Design Patterns
Jocelyn Richard, Jean-Marc Robert, *Ecole Polytechnique de Montreal, Canada*; Sebastien Malo, Joel Migneault, *CAE Montreal, Canada*.

HCI S166

Human Performance Modeling Using Interactive Simulations

Room: **Palm Beach**

Chair(s): Ling Rothrock, *Pennsylvania State University, United States*.

Human Behavioral Simulation using Affordance-based Agent Model
Namhun Kim, *Ulsan National Institute of Science & Technology (UNIST), Korea*; Jaekoo Joo, *Inje University, Korea*; Ling Rothrock, *Pennsylvania State University, United States*; Richard Wysk, *North Carolina State University, United States*; Young-Jun Son, *University of Arizona, United States*.

The Influence of Virtual World Interactions Toward Driving Real World Behaviors
Hari Thiruvengada, Paul Derby, Wendy Foslien, John Beane, Anand Tharanathan, *Honeywell Labs, United States*.

An Inductive Inference Model to Elicit Noncompensatory Judgment Strategies
Jing Yin, *MicroStrategy, United States*; Ling Rothrock, *Pennsylvania State University, United States*.

Investigating the Effects of Metacognition in Dynamic Control Tasks
Jung Hyup Kim, Ling Rothrock, *Pennsylvania State University, United States*; Anand Tharanathan, Hari Thiruvengada, *Honeywell Labs, United States*.

«How Do I Line Up?": Reducing Mental Transformations to Improve Performance
Guy Zimmerman, Dale Klopfer, G Michael Poor, Julie Barnes, Laura Leventhal, Samuel Jaffee, *Bowling Green State University, United States*.

Multi-Modal Interface based on Driving-Workload Optimization
Hyesun Park, Jongwoo Choi, *Electronics and Telecommunications Research Institute (ETRI), Korea*; Hyeong-Joon Kwon, *Sungkyunkwan University, Korea*; Kyong-Ho Kim, *Electronics and Telecommunications Research Institute (ETRI), Korea*.

Process Choreography for Human Interaction Computer-Aided Simulation
Carlos Fernandez-Llatas, Juan Bautista Mocholi, Pilar Sala, Juan Carlos Naranjo, *ITACA-TSB Universidad Politecnica de Valencia, Spain*.

HCI S167

Cognitive and Psychological Issues in HCI (II)

Room: **Fulton**

Chair(s): Klaus Bengler, *Technische Universitat Munchen, Germany*.

A Study of The Preattentive Perception for Interface Design and Cognitive Style on Information Search Performance
Jiunde Lee, Meng-Chieh Lee, *National Chiao Tung University, Taiwan*.

The effect of agents' appearance attractiveness on users' perceived personality
Yu-chen Hsu, *National Tsing Hua University, Taiwan*.

Individual Differences in Work Load while Doing Multitasking with a Computer
Kari Kallinen, Inger Ekman, Niklas Ravaja, *Aalto University, Finland*.

ColoriT: Color Based Image Code Application to Aid in Memory Restoration of Offline Photo Artifacts
James Park, Jong-Hoon Seo, Ji-Hye Choi, Tack-Don Han, *Yonsei University, Korea*.

Measurement of Driver/s Distraction for an early Prove of Concepts in Automotive Industry at the Example of the Development of a Haptic Touchpad
Roland Spies, *Ergoneers GmbH, Germany*; Andreas Blattner, *Technische Universitat Munchen, Germany*; Christian Lange, Martin Wohlfarter, *Ergoneers GmbH, Germany*; Klaus Bengler, *Technische Universitat Munchen, Germany*; Werner Hamberger, *Audi AG, Germany*.

In-car Dictation and Driver's Distraction: a Case Study
Martin Labsky, Tomas Macek, Jan Kleindienst, *IBM, Czech Republic*; Holger Quast, *Nuance Communication, Belgium*; Christophe Couvreur, *Nuance Communications, Belgium*.

EPCE S168

Engineering Psychology and Cognitive Ergonomics

Basic Issues of Interface Design

Room: **Taylor**

Chair(s): Xianghong Sun, *Chinese Academy of Sciences, P.R. China*.

Air Passengers' Luggage Screening: What is the Difference between Naive People and Airport Screeners?
Xi Liu, *Civil Aviation University of China, P.R. China*; Alastair Gale, *Loughborough University, United Kingdom*.

Application of Natural Language in Fire Spread Display
Yan Ge, Li Wang, Xianghong Sun, *Chinese Academy of Sciences, P.R. China*.

How Font Size and Tag Location Influence Chinese Perception of Tag Cloud?
Qiping Zhang, *Long Island University, United States*; Weina Qu, Li Wang, *Chinese Academy of Sciences, P.R. China*.

Cross-cultural Comparison of Blog Use for Parent-Teacher Communication in Elementary Schools
Qiping Zhang, April Hatcher, *Long Island University, United States*.

Balance Between Abstract Principles and Concrete Instances in Knowledge Communication
Toshiya Akasaka, Yusaku Okada, *Keio University, Japan*.

Trust Evaluation through Human-Machine Dialogue Modelling
Cyril Crocquesel, Francois Legras, Gilles Coppin, *Telecom-Bretagne, France*.

Audio and Audiovisual Cueing in Visual Search: Effect of Target Uncertainty and Auditory Cue Precision
Hugo Bertolotti, Thomas Strybel, *California State University, Long Beach, United States*.

UAHCI S169

Universal Access in Human-Computer Interaction

eInclusion - Policies, Programs, Best Practices

Room: **Sarasota**

Chair(s): Ana Isabel Paraguay, *Officio Ergonomia S/C, Brazil*.

eInclusion: Policies and Concepts Regarding Persons with Disabilities – Considerations about Brazil and Portugal
Ana Isabel Paraguay, *Officio Ergonomia S/C, Brazil*.

Mobile Technologies for Promoting Health and Wellness among African American Youth
Donovan Hill, Jasmine Blunt, Terrence Pugh, Monika Monk, *Norfolk State University, United States*; Ji-Sun Kim, Woodrow Winchester, Scott McCrickard, Paul Estabrooks, *Virginia Tech, United States*; Felicia Doswell, *Norfolk State University, United States*.

Implementation of the ISO/IEC 24756 for the Interaction Modeling of an AAL Space
Pilar Sala, Carlos Fernandez, Juan Bautista Mocholi, Pablo Presencia, Juan Carlos Naranjo, *ITACA-TSB Universidad Politecnica de Valencia, Spain*.

Investigation of Best Practices for Maintaining Section 508 Compliance in U.S. Federal Web Sites
Jonathan Lazar, Abiodun Olalere, *Towson University, United States*.

Using Human Service Center Interfaces and their Information to foster Innovation Management
Klaus-Peter Fahnrich, Kyrill Meyer, Benjamin Strehl, *University of Leipzig, Germany*.

eAccessibility in Public Procurement: an Introduction to European Mandate M/376
John Lee, *Research In Motion Ltd, Canada*.

S170

Ergonomics in Architecture

Room: **Hamilton**

Chair(s): Jerzy Charytonowicz, *Wroclaw University of Technology, Poland*.

The Computer - a Tool that Makes Human Environment. Technosphere.
Beata Majerska-Palubicka, *Silesian University of Technology, Poland*.

Evolution of Domestic Kitchen
Jerzy Charytonowicz, Dzoana Latala, *Wroclaw University of Technology, Poland*.

Thermal Preparation of Food and its Influence on Shaping the Old and Modern Kitchen
Przemyslaw Nowakowski, *Wroclaw University of Technology, Poland*.

Perception and Illusion in Interior Design
Anna Jaglarz, *Wroclaw University of Technology, Poland*.

Design for the Information Society
Agata Bonenberg, *Poznan University of Technology, Poland*.

S171

The Future of Universal Access (III)

Room: **Jade**

Chair(s): Liam Mayron, *Harris Corp., United States*; Gisela Susanne Bahr, *Florida Institute of Technology, United States*.

Informatics as Semiotics Engineering: Lessons learned from Design, Development and Evaluation of Ambient Assisted Living Applications for Elderly People
Andreas Holzinger, Gig Searle, *Medical University of Graz, Austria*; Andreas Auinger, *Upper Austria University of Applied Sciences, Austria*; Martina Ziefle, *RWTH Aachen University, Germany*.

Towards IT Security for Universal Access
Shiran Cohen, Noam Ben Asher, Joachim Meyer, *Ben-Gurion University of the Negev, Israel*.

Teaching the Next Generation of Universal Access Designers: A Case Study
Simeon Keates, *University of Abertay Dundee, United Kingdom*.

Supporting Universal Usability of Mobile Software: Touchscreen Usability Meta-Test
Vlado Glavinic, *University of Zagreb, Croatia*; Sandi Ljubic, *University of Rijeka, Croatia*; Mihael Kukec, *Polytechnic of Varazdin, Croatia*.

Design and Development of Four Prototype Interactive Edutainment Exhibits for Museums
Dimitris Grammenos, Xenophon Zabulis, Damien Michel, Thomas Sarmis, Giannis Georgalis, Konstantinos Tzevanidis, Antonis Argyros, Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

VMR S172

Virtual and Mixed Reality

Digital Museum

Room: **Manatee**

Chair(s): Michitaka Hirose, *The University of Tokyo, Japan*.

Digital Diorama: AR Exhibition System to Convey Background Information for Museums
Takuji Narumi, Oribe Hayashi, Kazuhiro Kasada, Mitsuhiko Yamazaki, Tomohiro Tanikawa, Michitaka Hirose, *The University of Tokyo, Japan*.

Digital Display Case: A Study on the Realization of a Virtual Transportation System for a Museum Collection
Takafumi Watanabe, Kenji Inose, Makoto Ando, *Toppan Printing Co., Ltd., Japan*; Takashi Kajinami, Takuji Narumi, Tomohiro Tanikawa, Michitaka Hirose, *The University of Tokyo, Japan*.

Wearable Display System for Handing down Intangible Cultural Heritage
Atsushi Hiyama, Yusuke Doyama, *The University of Tokyo, Japan*; Mariko Miyashita, *Tamagawa University, Japan*; Eikan Ebuchi, Masazumi Seki, *Kochi Prefectural Paper Industry Technology Center, Japan*; Michitaka Hirose, *The University of Tokyo, Japan*.

Digital Display Case using Non-contact Head Tracking
Takashi Kajinami, Takuji Narumi, Tomohiro Tanikawa, Michitaka Hirose, *The University of Tokyo, Japan*.

A Realtime and Direct-touch Interaction System for the 3D Cultural Artifact Exhibition
Wataru Wakita, *Ritsumeikan University, Japan*; Katsuhito Akahane, *Tokyo Institute of Technology, Japan*; Masaharu Isshiki, *Ehime University, Japan*; Hiromi Tanaka, *Ritsumeikan University, Japan*.

FiveStar: Ultra-realistic Space Experience System
Masahiro Urano, Yasushi Ikei, *Tokyo Metropolitan University, Japan*; Koichi Hirota, *The University of Tokyo, Japan*; Tomohiro Amemiya, *NTT Corporation, Japan*.

Development of Mobile AR Tour Application for the National Palace Museum of Korea
Jae-Beom Kim, Changhoon Park, *Hoseo University, Korea*.

IDGD S173

Internationalization, Design and Global Development

Research on User Experience and Service System Design in Mobile Network

Room: **Liberty**

Chair(s): Binbin Li, *Jiangnan University, P.R. China*.

New Development of Mobile Instant Messaging: Virtual Body Communication Interaction
Linong Dai, *Shanghai Jiaotong University, P.R. China*.

Exhibition User Experience Research and Design for Applications of Context Awareness Technologies
Jikun Liu, Xin Liu, *Tsinghua University, P.R. China*; Bingxue Gao, *Beijing Information Science & Technology University, P.R. China*; Jun Cai, *Tsinghua University, P.R. China*; Jenny Wang, *Nokia Research Center Beijing, P.R. China*; Qing Liu, *Tsinghua University, P.R. China*.

Mobilized Collaborative Services in Ubiquitous Network
Miaosen Gong, *Jiangnan University, P.R. China*; Ezio Manzini, *Politecnico di Milano, Italy*; Federico Casalegno, *Massachusetts Institute of Technology (MIT), United States*.

Study of the Influence of Handset Modeling Characteristics on Image Cognition
Binbin Li, *Jiangnan University, P.R. China*; Jia-liang Lin, *Ningbo University, P.R. China*; Liang Yin, *Jiangnan University, P.R. China*.

Service Design about the Recycle System of College Bicycles
Tianshi Shen, Peng Ran, Yonghe Ou, Yang Wang, Biwei Zhu, Ya Zhou, Liang Ying, *Jiangnan University, P.R. China*.

Usability Evaluation Factors Research in Network Database System
Engao Zhou, Jian Zhou, Bin-bin Li, *Jiangnan University, P.R. China*.

The User's Emotional Elements Research of Mobile Network Products Development Guided by User Experience
Yin Wang, *Zhejiang Sci-tech University, P.R. China*; Qing Ge, *Hangzhou Vocational & Technical College, P.R. China*.

THURSDAY 10:30 - 12:30

THURSDAY 10:30 - 12:30

OCSC S174

Online Communities and Social Computing

Design of Social Applications

Room: **Park**

Chair(s): Carsten Kleiner, *University of Applied Sciences & Arts Hannover, Germany*.

GAZO GAZO KUN: Photo-sharing System Using an Anthropomorphic Photo Frame for Communication Support
Takashi Yoshino, Tomoya Matsuo, *Wakayama University, Japan*.

An Investigation into the Social Network between Three Generations in a Household: Bridging the Interrogational Gaps between the Senior and the Youth
Tsai-Hsuan Tsai, Yi-Lun Ho, Kevin Tseng, *Chang Gung University, Taiwan*.

Design and Evaluation of an Online Social Support Application for Family Caregivers
Matthieu Tixier, Myriam Lewkowicz, *Universite de Technologie de Troyes, France*.

A Study on Social Network Services Visualization Based on User Needs
Young Suk HAN, Jong Kyu Choi, Yong Gu Ji, *Yonsei University, Korea*.

Tweet Me Home: Exploring Information Use on Twitter in Crisis Situations
Nirupama Sreenivasan, Chei Sian Lee, Dion Hoe-Lian Goh, *Nanyang Technological University, Singapore*.

Features to Support Persistent Chat Conversation
Mohsen Rahimifar, Siti Salwah Salim, *University of Malaya, Malaysia*.

Factors Influencing Online Social Interactions
Ravi Shankar, *Indian Institute of Technology Bombay, India*.

AC S175

Augmented Cognition

Augmenting Cognition by Social Information and Collective Intelligence

Room: **Nassau**

Chair(s): Wai Tat Fu, *University of Illinois at Urbana-Champaign, United States*; Yasuaki Sakamoto, *Stevens Institute of Technology, United States*.

Discovering Context: Classifying Tweets through a Semantic Transform based on Wikipedia
Yegin Genc, Yasuaki Sakamoto, Jeff Nickerson, *Stevens Institute of Technology, United States*.

The Crowdsourcing Design Space
Yasuaki Sakamoto, Yuko Tanaka, Lixiu Yu, Jeff Nickerson, *Stevens Institute of Technology, United States*.

Feature Selection in Crowd Creativity
Lixiu Yu, Yasuaki Sakamoto, *Stevens Institute of Technology, United States*.

Visual Analytics of Social Networks: Mining and Visualizing Co-authorship Networks
Carson Leung, Christopher Carmichael, Eu Wern Teh, *The University of Manitoba, Canada*.

Modelling User Behaviour and Interactions: Augmented Cognition on the Social Web
Ching-man Au Yeung, Tomoharu Iwata, *NTT Corporation, Japan*.

Idea Visibility, Information Diversity, and Idea Integration in Electronic Brainstorming
Elahe Javadi, Wai Tat Fu, *University of Illinois at Urbana-Champaign, United States*.

Designing Consumer Health Information Systems: What do User-generated Questions Tell Us?
Yan Zhang, *The University of Texas at Austin, United States*; Wai Tat Fu, *University of Illinois at Urbana-Champaign, United States*.

DHM S176

Digital Human Modeling

Driver Modeling

Room: **Union**

Chair(s): Claus Moebus, *University of Oldenburg, Germany*; Vincent Duffy, *Purdue University, United States*.

A Simulation Environment for Analysis and Optimization of Driver Models
Ola Benderius, *Chalmers University of Technology, Sweden*; Gustav Markkula, *Volvo Technology, Sweden*; Krister Wolff, Mattias Wahde, *Chalmers University of Technology, Sweden*.

The Two-point Visual Control Model of Steering - New Empirical Evidence
Hendrik Neumann, Barbara Deml, *University of Magdeburg, Germany*.

What is Human? How the Analysis of Brain Dynamics Can Help to Improve and Validate Driver Models
Sebastian Welke, Janna Protzak, Matthias Rotting, *Technische Universitat Berlin, Germany*; Thomas Jurgensohn, *HFC Human-Factors-Consult GmbH, Germany*.

Learning the Relevant Percepts of Modular Hierarchical Bayesian Driver Models using a Bayesian Information Criterion
Mark Eilers, *OFFIS – Institute for Information Technology, Germany*; Claus Moebus, *University of Oldenburg, Germany*.

Predicting the Focus of Attention and Deficits in Situation Awareness with a Modular Hierarchical Bayesian Driver Model
Claus Moebus, *University of Oldenburg, Germany*; Mark Eilers, *OFFIS – Institute for Information Technology, Germany*; Hilke Garbe, *University of Oldenburg, Germany*.

Automation Effects on Driver's Behaviour when Integrating a PADAS and a Distraction Classifier
Fabio Tango, *Centro Ricerche Fiat, Italy*; Luca Minin, *University of Modena and Reggio Emilia, Italy*; Raghav Aras, Olivier Pietquin, *IMS Supelec, France*.

Impact and Modeling of Driver Behavior Due to Cooperative Assistance Systems
Florian Laquai, Markus Duschl, Gerhard Rigoll, *Technische Universitat Munchen, Germany*.

HCD S177

Human Centered Design

HCD and Innovation

Room: **Lake**

Chair(s): Kazuhiko Yamazaki, *Chiba Institute of Technology, Japan*.

Human Interaction and Collaborative Innovation
Kevin Clark, *Content Evolution, United States*.

Design and Development of Eyes- and Hands-free Voice Interface for Mobile Phone
Kengo Fujita, Tsuneo Kato, *KDDI R&D Laboratories Inc., Japan*.

Consideration of HCD Methods for Service Innovation Design
Akira Kondo, *Hitachi Intermedix Co., Ltd., Japan*; Naoko Kondo, *OpensourceCRM, Inc., Japan*.

A Pattern Approach for Designing Application
Kohei Daimaru, Buntaro Kaji, *IBM, Japan*.

Building a Shared Cross-cultural Learning Community for Visual Communication Design Education
Takahito Kamihira, *Senshu University, Japan*; Miho Aoki, *University of Alaska Fairbanks, United States*; Tomoya Nakano, *Senshu University, Japan*.

Co-creation Process of Collaborative Work with Communication Robot
Seita Koike, Takeshi Ogino, Sari Takamura, Tatsushi Miyaji, Yuki Miyajima, *Tokyo City University, Japan*; Daishi Kato, Koyo Uemura, Kazuo Kunieda, Keiji Yamada, *NEC Corporation, Japan*.

One of Industrial Design Case to Share Tacit Knowledge
Hisashi Shima, *Lenovo, Japan*.

Design, User Experience, and Usability

DUXU S178

User Experience in Complex Systems

Room: Lexington

Chair(s): Shu-Wen Tzeng, *Auburn University, United States*

Human-Information Interactions with Complex Software
Michael Albers, *East Carolina University, United States*.

Clustering Analysis to Evaluate Usability of Work-Flow Systems and to Monitor Proficiency of Workers
Toru Nakata, *National Institute of Advanced Industrial Science & Technology (AIST), Japan*.

Fundamental Aspects Concerning the Usability Evaluation of Model-Driven Object Oriented Programming Approaches in Machine and Plant Automation
Martin Obermeier, Steven Braun, Kerstin Sommer, Birgit Vogel-Heuser, *Technische Universitat Munchen, Germany*.

A Fitting Software Comparative Usability Study to Investigate Transition Challenges Faced by Hearing-Aid Practitioners
Anil Shankar, Susie Valentine, Brent Edwards, *Starkey Hearing Research Center, United States*.

Interface for Multi-robots Based Video Coverage
Ryad Chellali, Emmanuel Bernier, Khelifa Baizid, *Istituto Italiano di Tecnologia (IIT), Italy*; Mohamed Zaoui, *College de France, France*.

Applying Gestural Interfaces to Command-and-Control
Todd Reily, Martina Balestra, *The MITRE Corporation, United States*.

Improving Code Reading and Comprehension on Large Displays
Selvihan Kaptan, *Bahcesehir University, Turkey*; Mehmet Gokturk, *Gebze Institute of Technology, Turkey*.

Human Interface and the Management of Information

HIMI S179

Intelligent HCI Convergence

Room: Lake

Chair(s): Jahwan Koo, *Sungkyunkwan University, Korea*.

Cryptanalysis to a Remote User Authentication Scheme Using Smart Cards for Multi-Server Environment
Youngsook Lee, *Howon University, Korea*; Jeeyeon Kim, Dongho Won, *Sungkyunkwan University, Korea*.

Analysis of Content Filtering Software
Woongryul Jeon, *Sungkyunkwan University, Korea*; Youngsook Lee, *Howon University, Korea*; Dongho Won, *Sungkyunkwan University, Korea*.

A Practical Analysis of Smartphone Security
Woongryul Jeon, Jeeyeon Kim, *Sungkyunkwan University, Korea*; Youngsook Lee, *Howon University, Korea*; Dongho Won, *Sungkyunkwan University, Korea*.

Economic Analysis of SON-enabled Mobile WiMAX
Seungjin Kwack, *SAMSUNG Electronics, Korea*; Jahwan Koo, Jinwook Chung, *Sungkyunkwan University, Korea*.

An Efficient and Scalable Meeting Minutes Generation and Presentation Technique.
Berk Taner, Can Yildizli, Ahmet Nergiz, Selim Balcisoy, *Sabanci University, Turkey*.

A Comprehensive Reference Model for Personalized Recommender Systems
Matthias Breyer, Kawa Nazemi, Christian Stab, Dirk Burkhardt, Arjan Kuijper, *Fraunhofer, Germany*.

Server-Aided Password-Authenticated Key Exchange: from 3-Party to Group
Junghyun Nam, *Konkuk University, Korea*; Juryon Paik, Jeeyeon Kim, *Sungkyunkwan University, Korea*; Youngsook Lee, *Howon University, Korea*; Dongho Won, *Sungkyunkwan University, Korea*.

S180

Personalisation, Persuasion and Credibility

Room: Fulton

Chair(s): Cheryl L. Brown, *University of North Carolina at Charlotte, United States*.

How to Persuade Sustainable Behavior Around Energy Consumption?
Youngho Rhee, Michael Chang, *SAMSUNG Electronics, Korea*; Youngkyu Jin, *UX Center DMC R&D Center Samsung Electronics, Korea*; Youngsil Jang, *SAMSUNG Electronics, Korea*.

Different People Different Styles: Impact of Personality Style in Web Sites Credibility Judgement
Rahayu Ahmad, Jieyu Wang, *UMBC, United States*; Karoly Hercegfi, *Budapest University of Technology and Economics, Hungary*; Anita Komlodi, *UMBC, United States*.

Health Information Technology: A Conceptual Model of Trust
Cheryl L. Brown, *University of North Carolina at Charlotte, United States*.

A Smart Movie Recommendation System
Sang-Ki Ko, Sang-Min Choi, Hae-Sung Eom, *Yonsei University, Korea*; Jeong-Won Cha, *Changwon National University, Korea*; Hyunchul Cho, Laehyun Kim, *Korea Institute of Science and Technology (KIST), Korea*; Yo-Sub Han, *Yonsei University, Korea*.

Proposal of the Kawaii Search System Based on the First Sight of Impression
Kyoko Hashiguchi, Katsuhiko Ogawa, *Keio University, Japan*.

Development of a Price Promotion Model for Online Store Selection
Shintaro Hotta, Syohei Ishizu, Yoshimitsu Nagai, *Aoyama Gakuin University, Japan*.

HCI S181

Human-Computer Interaction

Adaptive User Interfaces

Room: Nassau

Chair(s): Dieter Spath, *Fraunhofer, Germany*; Florian Metze, *Carnegie Mellon University, United States*.

A Design Patterns Approach to Adaptive User Interfaces for Users with Special Needs
Matthias Peissner, Andreas Schuller, Dieter Spath, *Fraunhofer, Germany*.

A Middleware Architecture for Designing TV-based Adapted Applications for the Elderly
Carlos Gacimartin, Jose Alberto Hernandez, David Larrabeiti, *Universidad Carlos III de Madrid, Spain*.

Accessibility for Older Users Through Adaptive Interfaces: Opportunities, Challenges and Achievements
Rob Edlin-White, Sue Cobb, Mirabelle D'Cruz, Anne Floyde, Sarah Lewthwaite, Johann Riedel, *The University of Nottingham, United Kingdom*.

A Review of Personality in Voice-Based Man Machine Interaction
Florian Metze, Alan Black, *Carnegie Mellon University, United States*; Tim Polzehl, *Technische Universitat Berlin, Germany*.

Sensing User Needs: Recognition Technologies and User Models for Adaptive User Interfaces
Barnabas Takacs, *Semmelweis Medical University / Technical University of Budapest, Hungary*; Lajos Simon, *Semmelweis Medical University, Hungary*; Matthias Peissner, *Fraunhofer, Germany*.

The Design of Adaptive Error Feedback Music Ear-Training System with Image Cues
Yu-Ting Huang, *Shih Chien University, Taiwan*; Chi Chu, *China University of Technology, Taiwan*.

S182

HCI and Auto Industry

Room: Palm Beach

Chair(s): Yong Gu Ji, *Yonsei University, Korea*.

Factors for Representing In-vehicle Roominess
Wonil Hwang, Nam-Hyo Kim, Hyeong-Joon Ahn, *Soongsil University, Korea*; Hee-Seok Jung, *Hyundai Motor Company, Korea*.

Analysis of Low-floor Bus Passengers' Behavior Patterns using Video Observation
Ji Yeon Kim, Hwan Hwangbo, Beom Suk Jin, *Yonsei University, Korea*; Bong-Ha Hwang, Young Joo Moon, *Hyundai Motor Company, Korea*; Yong Gu Ji, *Yonsei University, Korea*.

Analysis of Customer Satisfaction on the Stiffness of Outside Panels of Passenger Cars
Ilsun Rhiu, *Seoul National University, Korea*; Taebeum Ryu, *Hanbat National University, Korea*; Byung Kee Jin, Myung Hwan Yun, *Seoul National University, Korea*.

The Effective IVIS Menu and Control Type of an Instrumental Gauge Cluster and Steering Wheel Remote Control with a Menu Traversal
Seongmin Kim, Jaekyu Park, *Korea University, Korea*; Jaeho Choe, *Daejin University, Korea*; Eui Seung Jung, *Korea University, Korea*.

Driver's Experience and Behavioral Patterns through the Observation of Commercial Vehicle Driving
Youngjae Lim, *Korea University, Korea*; Sungjoon Park, *Namseoul University, Korea*; Eui Seung Jung, Taeil Kim, *Korea University, Korea*.

Improving Human-Machine Interaction – A Non-Invasive Approach to Detect Emotions in Car Drivers
Michael Oehl, Felix Siebert, Tessa-Karina Tews, Rainer Hoger, Hans-Ruediger Pfister, *Leuphana University of Lueneburg, Germany*.

Evaluation of Collision Avoidance Prototype Head-Up Display Interface for Older Drivers
Vassilis Charissis, *Glasgow Caledonian University, United Kingdom*; Stylianos Papanastasiou, *Chalmers University of Technology, Sweden*; Lewis Mackenzie, Sachi Arafat, *University of Glasgow, United Kingdom*.

S183

Interaction Design

Room: Hamilton

Chair(s): Sheue-Ling Hwang, *National Tsing Hua University, Taiwan*; Ying-Lien Lee, *Chaoyang University of Technology, Taiwan*.

Evaluation of Wayfinding Performance and Workload on Electronic Map Interface
Ya-Li Lin, Cheng-Han Wang, *Tunghai University, Taiwan*.

Effects of Presence on Causing Cybersickness in the Elderly within a 3D Virtual Store
Cheng-Li Liu, *Vanung University, Taiwan*; Shiaw-Tsyr Uang, *Minghsin University of Science and Technology, Taiwan*.

The Influence of Social Experience in Online Games
Hua Qin, *Beijing University of Civil Engineering and Architecture, P.R. China*; P.L. Patrick Rau, *Tsinghua University, P.R. China*; Song-feng Gao, *Beijing University of Civil Engineering and Architecture, P.R. China*.

Effects of Age Groups and Distortion Types on Text-based CAPTCHA Tasks
Chih-Hsiang Hsu, Ying-Lien Lee, *Chaoyang University of Technology, Taiwan*.

Predicting The Effects of Time-gaps for Adaptive Cruise Control (ACC) on Bus Driver Performance
Brian Lin, *University of Michigan Transportation Research Institute (UMTRI), United States*; Sheue-Ling Hwang, *National Tsing Hua University, Taiwan*.

Measurement of Tagging Behavior Differences
Li-Chen Tsai, Sheue-Ling Hwang, *National Tsing Hua University, Taiwan*; Eric Kuo-Hao Tang, *Fung-Chia University, Taiwan*.

User Interactive Design for Digital TV Web Surfing
Chih-Fei Chuang, *National Tsing Hua University, Taiwan*; Nancy Huang, *Purdue University, United States*; Sheue-Ling Hwang, *National Tsing Hua University, Taiwan*.

EPCE S184

Engineering Psychology and Cognitive Ergonomics

Cognitive Design for Human-Automation Interaction in Vehicle Guidance

Room: Taylor

Chair(s): Axel Schulte, *Universitat der Bundeswehr Munchen, Germany*.

Mental Resource Demands Prediction as a Key Element for Future Assistant Systems in Military Helicopters
Felix Maiwald, Axel Schulte, *Universitat der Bundeswehr Munchen, Germany*.

Designing Effective Soldier-Robot Teams in Complex Environments: Training, Interfaces, and Individual Differences
Michael Barnes, Jessie Chen, *US Army Research Laboratory, United States*; Florian Jentsch, *University of Central Florida, United States*; Elizabeth Redden, *US Army Research Laboratory, United States*.

Measuring Self-adaptive UAV Operators' Load-Shedding Strategies under High Workload
Axel Schulte, Diana Donath, *Universitat der Bundeswehr Munchen, Germany*.

Display Requirements for an Interactive Rail Scheduling Display
Jacqueline Tappan, David Pitman, Mary Cummings, *Massachusetts Institute of Technology (MIT), United States*; Denis Miglianico, *Alstom Transport, France*.

Authority Sharing in Mixed Initiative Control of Multiple Uninhabited Aerial Vehicles
Rui Goncalves, Sergio Ferreira, Jose Pinto, Joao Sousa, Gil Goncalves, *University of Porto, Portugal*.

Delegation to Automation: Performance and Implications in Non-Optimal Situations
Christopher Miller, *Smart Information Flow Technologies, United States*; Tyler Shaw, *George Mason University, United States*; Joshua Hamell, *Smart Information Flow Technologies, United States*; Adam Emfield, *George Mason University, United States*; David Musliner, *Smart Information Flow Technologies, United States*; Ewart De Visser, Raja Parasurman, *George Mason University, United States*.

Mixed-Initiative Multi-UAV Mission Planning by Merging Human and Machine Cognitive Skills
Ruben Strenzke, Axel Schulte, *Universitat der Bundeswehr Munchen, Germany*.

UAHCI S185

Universal Access in Human-Computer Interaction

Functional Modeling and Rehabilitation (II)

Room: **Dixie**

Chair(s): Jue Wang, *Xi'an Jiaotong University, P.R. China*.

Effect of Spinal Cord Injury on Nonlinear Complexity of Skin Blood Flow Oscillations
Yih-Kuen Jan, Fuyuan Liao, *University of Oklahoma Health Sciences Center, United States*; Stephanie Burns, *Oklahoma City Veterans Affair Medical Center, United States*.

The Design and Manufacture of Functional Micro-stationary PCR Chip
Jinquan Nie, Yulong Zhao, Yimin Liu, Keyin Liu, Niancai Peng, *Xi'an Jiaotong University, P.R. China*.

Intensity Analysis of Surface Myoelectric Signals from Lower Limbs during Key Gait Phases by Wavelets in Time-Frequency
Jiangang Yang, Xuan Gao, Baikun Wan, Dong Ming, Xiaoman Cheng, Hongzhi Qi, Xingwei An, Long Chen, Shuang Qiu, *Tianjin University, P.R. China*; Weijie Wang, *University of Dundee, United Kingdom*.

Control of Powered Prosthetic Hand Using Multidimensional Ultrasound Signals: A Pilot Study
Xin Chen, Siping Chen, Guo Dan, *Shenzhen University, P.R. China*.

A Method with Tri-axial Acceleration Sensor for Fall Detection of the Elderly in Daily Activities
Nan Bao, Cong Feng, Yan Kang, Lisheng Xu, Yuhang Du, Lei Zhang, Feifei Yang, Qingchao Li, *Northeastern University, P.R. China*.

Handle Reaction Vector Analysis with Fuzzy Clustering and Support Vector Machine during FES-assisted Walking Rehabilitation
Weixi Zhu, Dong Ming, Baikun Wan, Xiaoman Cheng, Hongzhi Qi, Yuanyuan Chen, Rui Xu, *Tianjin University, P.R. China*; Weijie Wang, *University of Dundee, United Kingdom*.

S186

Advanced Interaction Supporting Universal Access in Educational Systems

Room: **Union**

Chair(s): Vlado Glavinic, *University of Zagreb, Croatia*; Andrina Granic, *University of Split, Croatia*.

Shadow Expert Technique (SET) for Interaction Analysis in Educational Systems
Christian Stickel, Martin Ebner, *Graz University of Technology, Austria*; Andreas Holzinger, *Medical University of Graz, Austria*.

Intelligent Provision of Semantic Web Services in Educational Systems
Marija Zelic, Marko Rosic, *University of Split, Croatia*; Vlado Glavinic, *University of Zagreb, Croatia*.

Educational Impact of Structured Podcasts on Blind Users
Maria Claudia Buzzi, Marina Buzzi, Barbara Leporini, Giulio Mori, *Consiglio Nazionale delle Ricerche (CNR), Italy*.

Learning Styles and Navigation Patterns in Web-based Education
Jelena Nakic, Nikola Marangunic, Andrina Granic, *University of Split, Croatia*.

Accessible Education for Autistic Children: ABA-based Didactic SW
Silvia Artoni, *Lucca Associazione Sindromi Autistiche (LASA), Italy*; Maria Claudia Buzzi, Marina Buzzi, *Consiglio Nazionale delle Ricerche (CNR), Italy*; Claudia Fenili, *Associazione Sindromi Autistiche (ASA), Italy*; Simona Mencarini, *Lucca Associazione Sindromi Autistiche (LASA), Italy*.

Intelligent Working Environments for the Ambient Classroom
Maria Korozi, Stavroula Ntoa, Margherita Antona, Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

Towards Ambient Intelligence in the Classroom
George Margetis, Asterios Leonidis, Margherita Antona, Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

S187

Implications of Cloud Computing for People with Cognitive Disabilities

Room: **Liberty**

Chair(s): Clayton Lewis, *University of Colorado, United States*.

Legal and Policy Implications of Cloud Computing
Eve Hill, *Brown Goldstein & Levy, United States*.

From Clouds to Rain: Consolidating and Simplifying Online Communication Services with Easy One Communicator
Jeffery Hoehl, *University of Colorado, United States*; Gregg Vanderheiden, *University of Wisconsin-Madison, United States*.

Untapped Markets in Cloud Computing: Perspectives and Profiles of Individuals with Intellectual and Developmental Disabilities and their Families
Ann Caldwell, *The Arc of the United States, United States*.

Implications of Cloud Computing for People with Cognitive Disabilities
James Sullivan, Clayton Lewis, Jeffery Hoehl, *University of Colorado, United States*.

Opportunities in Cloud Computing for People with Cognitive Disabilities: Designer and User Perspective.
Clayton Lewis, *University of Colorado, United States*; Nancy Ward, *theArcLink, United States*.

VMR S188

Virtual and Mixed Reality

Dive into the Movie - New Technique to Make Audience Attainable into the Contents

Room: **Manatee**

Chair(s): Shigeo Morishima, *Waseda University, Japan*; Yasushi Yagi, *Osaka University, Japan*; Satoshi Nakamura, *National Institute of Information and Communications Technology, Japan*.

Instant Movie Casting with Personality: Dive Into the Movie System
Shigeo Morishima, *Waseda University, Japan*; Yasushi Yagi, *Osaka University, Japan*; Satoshi Nakamura, *National Institute of Information and Communications Technology, Japan*.

Realistic Facial Animation by Automatic Individual Head Modeling and Facial Muscle Adjustment
Akinobu Maejima, Hiroyuki Kubo, Shigeo Morishima, *Waseda University, Japan*.

3-D Sound Reproduction System for Immersive Environments based on the Boundary Surface Control Principle
Seigo Enomoto, Yusuke Ikeda, *National Institute of Information and Communications Technology, Japan*; Shiro Ise, *Kyoto University, Japan*; Satoshi Nakamura, *National Institute of Information and Communications Technology, Japan*.

Providing Immersive Virtual Experience with First-person Perspective Omnidirectional Movies and Three Dimensional Sound Field
Kazuaki Kondo, *Kyoto University, Japan*; Yasuhiro Mukaigawa, *Osaka University, Japan*; Yusuke Ikeda, Seigo Enomoto, *National Institute of Information and Communications Technology, Japan*; Shiro Ise, *Kyoto University, Japan*; Satoshi Nakamura, *National Institute of Information and Communications Technology, Japan*; Yasushi Yagi, *Osaka University, Japan*.

The Online Gait Measurement for Characteristic Gait Animation Synthesis
Yasushi Makihara, Mayu Okumura, Yasushi Yagi, *Osaka University, Japan*; Shigeo Morishima, *Waseda University, Japan*.

Personalized Voice Assignment Techniques for Synchronized Scenario Speech Output in Entertainment Systems
Shin-ichi Kawamoto, *Japan Advanced Institute of Science and Technology (JAIST), Japan*; Tatsuo Yotsukura, *OLM Digital Inc., Japan*; Satoshi Nakamura, *National Institute of Information and Communications Technology, Japan*; Shigeo Morishima, *Waseda University, Japan*.

Measuring and Modeling of Multi-layered Subsurface Scattering for Human Skin
Tomohiro Mashita, Yasuhiro Mukaigawa, Yasushi Yagi, *Osaka University, Japan*.

THURSDAY 13:30 - 15:30

IDGD S189

Internationalization, Design and Global Development

Living Lab for Smart Shopping: User Experience in Convenience Store

Room: **Park**

Chair(s): P.L. Patrick Rau, *Tsinghua University, P.R. China*; Chih-Ning Chu, *Chung Yuan Christian University, Taiwan*.

Employee Experience Management of Convenience Store in Beijing
Jing Guo, P.L. Patrick Rau, *Tsinghua University, P.R. China*.

Smart Store Understanding Consumer's Preference through Behavior Logs
Akihiro Ogino, *Kyoto Sangyo University, Japan*; Taketo Kobayashi, Yusuke Iida, Toshikazu Kato, *Chuo University, Japan*.

Design Convenience Stores for Chinese Teenagers
Jia Zhou, P.L. Patrick Rau, Hui Li, Wei Jiang, Bayan Konirbay, Christian Seyfert, Kanta Sribunnak, Christoph Winkler, *Tsinghua University, P.R. China*.

User Experience Design for Convenient Store's Kiosk
Chih-Ning Chu, *Chung Yuan Christian University, Taiwan*; P.L. Patrick Rau, *Tsinghua University, P.R. China*; Calvin Lai, *Shih Chien University, Taiwan*; Peiling Liu, *National Taiwan University, Taiwan*.

Can I Help You?: Towards the Improvement of Occupational Experience for Convenience Store Employees in Taiwan
Yuan-Ling Chiao, Ching-Hu Lu, Hwei-Wen Yeh, Yuan-Yun Chou, Peiling Liu, *National Taiwan University, Taiwan*.

OCSC S190

Online Communities and Social Computing

Social Spaces for Virtual Gameplay and Learning – New Inquiries

Room: **Escambia**

Chair(s): Anthony Faiola, *Indiana University, United States*; Alexander Voiskounsky, *Moscow Lomonosov State University, Russia*.

"Your Team Cohesion is Low": A Systematic Study of the Effects of Social Network Feedback on Mediated Activity
Luciano Gamberini, Francesco Martino, Anna Spagnolli, Roberto Bau, Michela Ferron, *University of Padova, Italy*.

Preschoolers as Video Gamers
Alexander Voiskounsky, *Moscow Lomonosov State University, Russia*.

A Virtual World Prototype for Interacting with a Music Collection
Jukka Holm, *Tampere University of Technology, Finland*; Arto Lehtiniemi, *Nokia Research Center, Finland*.

Effects of a Synchronized Scoring Interface on Musical Quality
YUJI TAKAI, Masao Ohira, Ken-ichi Matsumoto, *Nara Institute of Science and Technology, Japan*.

Promoting Reflective Learning: The Role of Blogs in the Classroom
Rahayu Ahmad, Wayne Lutters, *UMBC, United States*.

AC S191

Augmented Cognition

Augmented Cognition Applications

Room: **Jackson**

Chair(s): Martha Crosby, *University of Hawaii at Manoa, United States*; Marc Grootjen, *TNO/EagleScience, Netherlands*.

Adaptive Attention Allocation Support: Effects of System Conservativeness and Human Competence
Peter-Paul Van Maanen, *TNO, Netherlands*; Teun Lucassen, *University of Twente, Netherlands*; Kees Van Dongen, *TNO, Netherlands*.

Performance Measures to Enable Agent-based Support in Demanding Circumstances
Fiemke Both, Mark Hoogendoorn, Rianne Van Lambalgen, Rogier Oorburg, Michael De Vos, *VU University Amsterdam, Netherlands*.

The Brain as Target Image Detector: The Role of Image Category and Presentation Time
Anne-Marie Brouwer, Jan Van Erp, Bart Kappe, *TNO, Netherlands*; Anne Urai, *TNO / University College Utrecht, Netherlands*.

Augmented Phonocardiogram Acquisition and Analysis
Nancy Reed, Todd Reed, *University of Hawaii at Manoa, United States*.

Developing and Automating a Prototype for Assessing Levels of Student Involvement
Curtis Ikehara, Martha Crosby, *University of Hawaii at Manoa, United States*.

Cognitive Adaptable Man Machine Interfaces for the Firefighter Commander: Design Framework and Research Methodology
Maurits De Graaf, *Thales NL, Netherlands*; Michel Varkevisser, Masja Kempen, *Thales Research & Technology, Netherlands*; Nicolas Jourden, *Thales NL, Netherlands*.

Estimating the Level of Motion Sickness based on EEG Spectra
Li-Wei Ko, Chun-Shu Wei, *National Chiao Tung University, Taiwan*; Tzyy-Ping Jung, *University of California San Diego, United States*; Chin-Teng Lin, *National Chiao Tung University, Taiwan*.

DHM S192

Digital Human Modeling

Product Design & Human Interface

Room: **Madison**

Chair(s): Ravindra Goonetilleke, *Hong Kong University of Science & Technology, Hong Kong*; Ameersing Luximon, *The Hong Kong Polytechnic University, Hong Kong*.

Three-dimensional Grading of Virtual Garment with Design Signature Curves
Roger Ng, *The Hong Kong Polytechnic University, Hong Kong*.

3D Parametric Body Model Based on Chinese Female Anhtropometric Analysis
Sixiang Peng, Chee-kooi Chan, W.H. Ip, Ameersing Luximon, *The Hong Kong Polytechnic University, Hong Kong*.

Mass Customization Methodology for Footwear Design
YiFan Zhang, Ameersing Luximon, Xiao Ma, *The Hong Kong Polytechnic University, Hong Kong*; Xiaoling Guo, *Zhongshan Boai Hospital, P.R. China*; Ming Zhang, *The Hong Kong Polytechnic University, Hong Kong*.

Preliminary Study on Dynamic Foot Model
Ameersing Luximon, Yan Luximon, *The Hong Kong Polytechnic University, Hong Kong*.

Footbed Influences on Posture and Perceived Feel
Thilina Weerasinghe, Ravindra Goonetilleke, *Hong Kong University of Science & Technology, Hong Kong*.

StabilitySole: Embedded Sensor Insole for Balance and Gait Monitoring
Peyton Paulick, Hamid Djalilian, Mark Bachman, *University of California, Irvine, United States*.

HCD S193

Human Centered Design

Design and Service

Room: Sarasota

Chair(s): Toshiki Yamaoka, *Wakayama University, Japan*.

Structure of FUN Factors in the Interaction with Products
Sayoko Tominaga, Toshihisa Doi, Toshiki Yamaoka, *Wakayama University, Japan*; Yuka Misyashita, Masayoshi Toriumi, *NISSAN MOTOR CO., LTD, Japan*.

Designing of an Effective Monitor Partitioning System with Adjustable Virtual Bezel
Sang-su Lee, Hyunjeong Kim, Yong-ki Lee, Minseok Sim, Kun-Pyo Lee, *Korea Advanced Institute of Science and Technology (KAIST), Korea*.

The Impact of Robots Language Form on People's Perception of Robots
Yunkyung Kim, Sonya Kwak, Myungsuk Kim, *Korea Advanced Institute of Science and Technology (KAIST), Korea*.

Research in the Use of Product Semantics to Communicate Product Design Information
Chung-Hung Lin, *Ling Tung University, Taiwan*.

Understanding the Business Realities; An Interview Technique which can Visualize the Job Problems
Ayako Yajima, *Fujitsu, Ltd., Japan*; Toshiki Yamaoka, *Wakayama University, Japan*; Yuji Shiino, *Fujitsu, Ltd., Japan*.

A Proposal of Service Design Evaluation Method
Toshiki Yamaoka, *Wakayama University, Japan*.

Electronic Medication Reminder for Older Adults
Yi-Lin Lo, Chang-Franw Lee, Wang-Chin Tsai, *National Yunlin University of Science and Technology, Taiwan*.

DUXU S194 | S195

Design, User Experience, and Usability

User Experience Design Methods

Room: Lexington

Chair(s): Michael Albers, *East Carolina University, United States*.

A Product Design Approach by Integrating Axiomatic Design and TRIZ
Shiaw-Tsyr Uang, *Minghsin University of Science and Technology, Taiwan*; Cheng-Li Liu, *Vanung University, Taiwan*; Mali Chang, *Minghsin University of Science and Technology, Taiwan*.

Different UI, Same UX: A Design Concept for Implementing a Locally-Optimized and Globally-Unified Interaction Experience
Sung Woo Kim, *KT R&D Center, Korea*; Hankyung Jo, *SAMSUNG Electronics, Korea*; Da Yun Ha, *Kookmin University, Korea*.

Motivating Change and Reducing Cost with the Discount Video Data Analysis Technique
Jody Wynn, Jeremiah Still, *Missouri Western State University, United States*.

The Application of the Concept of Affordance to a Creative Design Method
Chien-Kuo Teng, *Shih Chien University, Taiwan*; Ming-Chuen Chuang, *National Chiao Tung University, Taiwan*.

A study of Interface Design Method on Crossing Media-dimension
Hung-Pin Hsu, *National Chiao Tung University, Taiwan*.

Developing Idea Generation for the Interface Design Process with Mass Collaboration System
Daeeop Kim, Sang-su Lee, Seungwoo Maeng, Kun-Pyo Lee, *Korea Advanced Institute of Science and Technology (KAIST), Korea*.

Designing Pervasive Games for Learning
Carmelo Ardito, Rosa Lanzilotti, *Universita degli Studi di Bari, Italy*; Dimitrios Raptis, Christos Sintoris, Nikoleta Yiannoutsou, Nikolaos Avouris, *University of Patras, Greece*; Maria Francesca Costabile, *Universita degli Studi di Bari, Italy*.

Designing Products and Devices

Room: Jade

Chair(s): Claudia Mont'Alvao, *PUC - Rio de Janeiro, Brazil*

An Air Conditioning Control Method Based on Biological Fluctuation
Hiroki Matsumoto, Yoshio Iwai, Yutaka Nakamura, Hiroshi Ishiguro, *Osaka University, Japan*.

Prospecting a New Physical Artifact of Interaction for iDTV: Results of Participatory Practices
Leonardo Miranda, Heiko Hornung, M. Cecilia Baranauskas, *University of Campinas (UNICAMP), Brazil*.

Designing Notebook Computers to Ensure a Comfortable User Experience: Effects of Surface Temperature, Material, Locality, and Ambient Temperature
Eric Baugh, Rina Doherty, *Intel Corporation, United States*.

An Experiment About how to Feel Temperature Change of Mouse
Shigeyoshi Iizuka, *Kanagawa University, Japan*.

Customized Usability Engineering for a Solar Control Unit: Adapting Traditional Methods to Domain and Project Constraints
Patricia Bohm, Tim Schneidermeier, Christian Wolff, *University of Regensburg, Germany*.

Methodology for Evaluating Multimodal Biometric Authentication on Mobile Devices
Claudia Tambascia, Robson Eudes Duarte, Ewerton Martins Menezes, *CPqD Foundation, Brazil*.

Design and Evaluation of the Customized Product Color Combination Interfaces Using 3D Model and 2D Illustration Display
Cheih-Ying Chen, *National Pingtung University of Education, Taiwan*; Ying-Jye Lee, *National Kaohsiung University of Applied Sciences, Taiwan*.

Parallel Sessions

HIMI S196

Human Interface and the Management of Information

Psychological and Physiological Model Applied to Human Interface Design

Room: Sarasota

Chair(s): Shin'ichi Fukuzumi, *NEC Corporation, Japan.*

Feasibility Study of Predictive Human Performance Modeling Technique in Field Activities
Naomi Yano, Toshiyuki Asahi, Shin'ichi Fukuzumi, *NEC Corporation, Japan*; Bonnie John, *IBM T. J. Watson Research Center, United States*.

Effect of Menstrual Distress on Task Performance
Keiko Kasamatsu, Mi Kyong Park, Seiko Taki, *Tokyo Metropolitan University, Japan*.

Bereitschaftspotential Modeling by DBNM and Its Application to BCI
Shino Takata, Toshimasa Yamazaki, Maiko Sakamoto, *Kyushu Institute of Technology, Japan*; Takahiro Yamanoi, *Hokkai Gakuen University, Japan*; Kenichi Kamijo, *NEC Green Innovation Research Labs, Japan*.

Basic study of Analysis of Human Brain Activities during Car Driving
Noboru Takahashi, Shunji Shimizu, Yukihiro Hirata, *Tokyo University of Science, Suwa, Japan*; Hiroyuki Nara, *Hokkaido University, Japan*; Hiroaki Inoue, *Tokyo University of Science, Suwa, Japan*; Nobuhide Hirai, Senichiro Kikuchi, Eiju Watanabe, Satoshi Kato, *Jichi Medical University, Japan*.

Construction of a Model for Discriminating between Electroencephalographic Patterns at the Time of Incorrect Inputs Based on Sensitivity Spectrum Analysis
Raita Ohori, Daiki Shinkai, Yoshimitsu Nagai, Syohei Ishizu, *Aoyama Gakuin University, Japan*.

A Study of Attention Control by Using Eye Communication with an Anthropomorphic Agent
Tatsuya Mita, Ryo Wada, Noriaki Kuwahara, Kazunari Morimoto, *Kyoto Institute of Technology, Japan*.

ERACLE: Electromyography System for Gesture Interaction
Paolo Belluco, Monica Bordegoni, Umberto Cugini, *Politecnico di Milano, Italy*.

HCI S197 S198 S199

Human-Computer Interaction

Executable Models to Bridge Design Time and Runtime of Interactive Systems

Room: Lake

Chair(s): Birgit Bomsdorf, *Fulda University of Applied Sciences, Germany*; Sebastian Feuerstack, *Universidade Federal de Sao Carlos, Brazil*.

Intertwined Modeling and Implementation of Interactive Systems using HOPS
Anke Dittmar, Peter Forbrig, *University of Rostock, Germany*.

Building Multimodal Interfaces out of Executable, Model-based Interactors and Mappings
Sebastian Feuerstack, Ednaldo Pizzolato, *Universidade Federal de Sao Carlos, Brazil*.

Configurable Executable Task Models supporting the Transition from Design Time to Runtime
Birgit Bomsdorf, Stefan Grau, Martin Hudasch, Jan-Torsten Milde, *Fulda University of Applied Sciences, Germany*.

User Interface Representation Using Simple Components
Javier Rodeiro Iglesias, *University of Vigo, Spain*; Pedro Teixeira-Faria, *Polytechnic Institute of Viana do Castelo, Portugal*.

Innovative User Interfaces for Navigation and Guidance

Room: Manatee

Chair(s): Tom Plocher, *Honeywell Labs, United States.*

Using Sound Patterns to Enhance Directional Sound for Emergency Route Guidance
Tom Plocher, Zhao Xia Janet Jin, *Honeywell Labs, United States*; Foong-Yeen Donny Chan, *Honeywell Technology Solutions-China, P.R. China*.

Believe What You Hear, Not What You See - Vision Interferes with Auditory Route Guidance in Complex Environment
Ying Wang, Huiting Zhang, Lu Yu, Kan Zhang, Xianghong Sun, *Chinese Academy of Sciences, P.R. China*; Tom Plocher, *Honeywell Labs, United States*.

Implementing Effective Tactile Symbology for Orientation and Navigation
Bruce Mortimer, Gary Zets, Greg Mort, Curtis Shovan, *Engineering Acoustics, Inc., United States*.

A Knowledge Elicitation Study for a Speech Enabled GIS to Handle Vagueness in Communication
Hongmei Wang, *Northern Kentucky University, United States*.

Kansei Stroll Map: Walking Around a City Using Visualized Impressions of Streetscapes
Yuichiro Kinoshita, Satoshi Tsukanaka, Takumi Nakama, *University of Yamanashi, Japan*.

Behavioral Cost-Based Recommendation Model for Wanderers in Town
Kenro Aihara, Hitoshi Koshiba, Hideaki Takeda, *National Institute of Informatics, Japan*.

Human Interaction in Mobility

Room: Palm Beach

Chair(s): Bertrand David, *Ecole Centrale de Lyon, France.*

The Effect of Time Orientation and Representation of Points of Interests on the Use of Mobile Tour Guide
Fei Gao, Qin Gao, *Tsinghua University, P.R. China*.

Gaze-directed Hands-free Interface for Mobile Interaction
Gie-seo Park, Jong-gil Ahn, Gerard Kim, *Korea University, Korea*.

XML in Formal Specification, Verification and Generation of Mobile HCI
Ines Riahi, Meriem Riahi, *Laboratoire CRISTAL, Tunisia*; Faouzi Moussa, *Universite de Tunis, Tunisia*.

Field to File: A Tool for Activity Documentation Work in Remote Mobility Environments
Raul Casillas, Alberto Moran, *Universidad Autonoma de Baja California, Mexico*.

Innovative User Interfaces for Wearable Computers in Real Augmented Environment
Yun Zhou, Bertrand David, Rene Chalon, *Ecole Centrale de Lyon, France*.

Interaction in Mobility: The Evaluation of Interactive Systems Used by Travellers in Transportation Contexts
Christophe Kolski, *University of Valenciennes, France*; Guillaume Uster, *INRETS, France*; Jean-Marc Robert, *Ecole Polytechnique de Montreal, Canada*; Kathia Oliveira, *University of Valenciennes, France*; Bertrand David, *Ecole Centrale de Lyon, France.*

Introducing Mobility in Serious Games: Enhancing Situated and Collaborative Learning
Sebastien George, Audrey Serna, *Universite de Lyon, France.*

S200

Human System Interaction

Room: **Jackson**

Chair(s): Michiya Yamamoto, *Kwansei Gakuin University, Japan*.

Proposal of a Method for Promotion of Continuous Pro-Environmental Behavior with Easy Communication
Saizo Aoyagi, Tomoaki Okamura, Hirotake Ishii, Hiroshi Shimoda, *Kyoto University, Japan*.

Proposal of an Office Work Productivity Model Based on Short Pauses in Mental Tasks
Kazune Miyagi, Show Kawano, Hong Zhe Jin, Hiroshi Shimoda, Hirotake Ishii, *Kyoto University, Japan*.

Promotion Project for Communication between Artisans and Consumers Supported by Media Technology
Ritsuko Izuhara, Sho Yokokawa, Shinya Suzuki, *Kanazawa Institute of Technology, Japan*.

A Configuration Method of Visual Media by Using Characters of Audiences for Embodied Sports Cheering
Kentaro Okamoto, Michiya Yamamoto, *Kwansei Gakuin University, Japan*; Tomio Watanabe, *Okayama Prefectural University, Japan*.

Development of Embodied Visual Effects which Expand the Presentation Motion of Emphasis and Indication
Yuya Takao, Michiya Yamamoto, *Kwansei Gakuin University, Japan*; Tomio Watanabe, *Okayama Prefectural University, Japan*.

Synchronization and Fluctuation of Rhythm in Musical Cooperative Performance
Tomohito Yamamoto, *Kanazawa Institute of Technology, Japan*.

ShoeBox: a Natural Way of Organizing Pictures According to User's Affinities
Bojan Blazica, Daniel Vladusic, *Xlab d.o.o., Slovenia*; Dunja Mladenic, *Jozef Stefan Institute, Slovenia*.

UAHCI S201

Universal Access in Human-Computer Interaction

Personal Health Systems (PHS) Integration With Ambient Assisted Living (AAL) : Is Ambient Assisted Health (AAH) a Reality?

Room: **Hamilton**

Chair(s): Nicos Maglaveras, *Centre for Research and Technology Hellas (CERTH) / Aristotle University of Thessaloniki, Greece*.

The REMOTE AAL Project: Remote Health and Social Care for Independent Living of Isolated Elderly with Chronic Conditions
Evangelos Bekiaris, Alexandros Mourouzis, *Centre for Research and Technology Hellas (CERTH), Greece*; Nicos Maglaveras, *Centre for Research and Technology Hellas (CERTH) / Aristotle University of Thessaloniki, Greece*.

A Novel Design Approach for Multi-device Adaptable User Interfaces: Concepts, Methods and Examples
Alexandros Mourouzis, *Centre for Research and Technology Hellas (CERTH), Greece*; Asterios Leonidis, Michalis Foukarakis, Margherita Antona, *Foundation for Research & Technology - Hellas (FORTH), Greece*; Nicos Maglaveras, *Centre for Research and Technology Hellas (CERTH) / Aristotle University of Thessaloniki, Greece*.

Adaptive Implicit Interaction for Healthy Nutrition and Food Intake Supervision
Felix Kamieth, Andreas Braun, Christian Schlehuber, *Fraunhofer, Germany*.

Interactive Personalization of Ambient Assisted Living Environments
Alexander Marinc, Carsten Stocklow, Andreas Braun, *Fraunhofer, Germany*; Carsten Limberger, *Technical University of Darmstadt, Germany*; Cristian Hofmann, Arjan Kuijper, *Fraunhofer, Germany*.

Results of the Usability and Acceptance Evaluation of a Cardiac Rehabilitation System
Cecilia Vera Munoz, Maria Teresa Arredondo, Ignacio Peinado, Manuel Ottaviano, JoseManuel Paez, Arturo Diaz De Barrionuevo, *Universidad Politecnica de Madrid, Spain*.

User Interface Framework for Ambient Intelligence Platforms
Patricia Abril-Jimenez, Cecilia Vera Munoz, Maria Teresa Arredondo, *Universidad Politecnica de Madrid, Spain*; Haydee Alvarez, *SIEMENS, S.A., Spain*; Jose Baragano Galan, *Universidad Politecnica de Madrid, Spain*.

Emergent Design: Bringing the Learner Closer to the Experience
Joseph Defazio, Kevin Rand, *Indiana University, United States*.

S202

New Trends in Non-visual Interaction

Room: **Liberty**

Chair(s): Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

New Trends in Non-visual Interaction – Sonification of Maps
Vidas Lauruska, *Siauliai University, Lithuania*.

Pregnancy Test for the Vision-Impaired Users
Tereza Hykova, Adam Sporka, Jan Vystrcil, Martin Klima, Pavel Slavik, *Czech Technical University in Prague, Czech Republic*.

Fuzzy-Logic Controller for Speaker-Independent Speech Recognition System in Computer Games
Moyen Mustaquim, *Uppsala University, Sweden*.

Introducing TactoWeb: A Tool to Spatially Explore Web Pages for Users with Visual Impairment
Gregory Petit, *Ecole Polytechnique de Montreal, Canada*; Aude Dufresne, *Universite de Montreal, Canada*; Jean-Marc Robert, *Ecole Polytechnique de Montreal, Canada*.

Audiopolis, Navigation through a Virtual City Using Audio and Haptic Interfaces for People Who are Blind
Jaime Sanchez, Javiera Mascaro, *University of Chile, Chile*.

A-Cross: An Accessible Crossword Puzzle for Visually Impaired Users
Stavroula Ntoa, Ilia Adami, *Foundation for Research & Technology - Hellas (FORTH), Greece*; Giannis Prokopiou, *University of Crete, Greece*; Margherita Antona, Constantine Stephanidis, *Foundation for Research & Technology - Hellas (FORTH), Greece*.

Importance of Computer Technology to the Blind and Partially Sighted People
Frances Candiru, *Uganda National Association of the Blind, Uganda*.

S203

Design Access in Human Communication and Interaction

Room: **Madison**

Chair(s): Fong-Gong Wu, *National Cheng Kung University, Taiwan*.

iAWN: Designing Smart Artifacts for Sustainable Awareness
Tay-Sheng Jeng, Yu-Pin Ma, Yang-Ting Shen, *National Cheng Kung University, Taiwan*.

A Method to Solve the Communication Gap between Designers and Users
Jeichen Hsieh, Chia-Ching Lin, *Tunghai University, Taiwan*; Pao-Tai Hsieh, *Tai-Chung Institute of Technology, Taiwan*.

The Comparison of Different Sensory Outputs on the Driving Overtake Alarm System
Yu-Chun Huang, Chia-Jung Tsai, Jo-Yu Kuo, Fong-Gong Wu, *National Cheng Kung University, Taiwan*.

Exploration of the Cultural Image of Chinese Form Using Culture Identity Design
Ying-Jye Lee, *National Kaohsiung University of Applied Sciences, Taiwan*; Cheih-Ying Chen, *National Pingtung University of Education, Taiwan*.

Visual Design Elements of Photos on Taiwanese Female Clothing On-line Sales
Ro-Han Chang, Tsai-Rong Yu, Yao-Cheng Tsai, *Chung Yuan Christian University, Taiwan*.

Museum Exhibit Content Recommendation and Guidance System Focusing on Experience Design
Ding-Bang Luh, *National Cheng Kung University, Taiwan*; Tsai-Lin Yang, *Shu-Te University, Taiwan*; Chih-lin Chiang, Ssu-ling Huang, *National Cheng Kung University, Taiwan*.

Product Form Feature Selection for Mobile Phone Design using LS-SVR and ARD
Chih-Chieh Yang, *Southern Taiwan University, Taiwan*; Meng-Dar Shieh, *National Cheng Kung University, Taiwan*; Kuang-Hsiung Chen, Pei-Ju Lin, *Southern Taiwan University, Taiwan*.

THURSDAY 16:00 - 18:00

VMR S204

Virtual and Mixed Reality

Augmented Reality Industrial Applications

Room: Dixie

Chair(s): Eduardo Gonzalez Mendivil, *ITESM - Monterrey Campus, Mexico.*

Remote Context Monitoring of Actions and Behaviors in a Location Through 3D Visualization in Real-Time
John Conomikes Jr., Zachary Pacheco, *Carnegie Mellon University, United States*; Salvador Barrera, Juan Antonio Cantu, Lucy Beatriz Gomez, Christian De los Reyes, Juan Manuel Mendez-Villarreal, *Universidad de Monterrey (UDEM), Mexico*; Takeo Shime, Yuki Kamiya, Hedeki Kawai, Kazuo Kunieda, Keiji Yamada, *NEC Corporation, Japan*.

Sample Size Estimation for Statistical Comparative Test of Training by Using Augmented Reality Via Theoretical Formula and OCC Graphs: Aeronautical Case of a Component Assemblage
Fernando Suarez-Warden, Yocelin Cervantes-Gloria, Eduardo Gonzalez Mendivil, *ITESM - Monterrey Campus, Mexico*.

Augmented Reality: An Advantageous Option for Complex Training and Maintenance Operations in Aeronautic Related Processes
Horacio Rios, Mauricio Hincapie, Andrea Caponio, Emilio Mercado Field, Eduardo Gonzalez Mendivil, *ITESM - Monterrey Campus, Mexico*.

Collaborative Mixed-Reality Platform for the Design Assessment of Cars Interior
Giandomenico Caruso, Samuele Polistina, Monica Bordegoni, Marcello Aliverti, *Politecnico di Milano, Italy*.

Design Criteria for AR-based Training of Maintenance and Assembly Tasks
Sabine Webel, Ulrich Bockholt, Jens Keil, *Fraunhofer, Germany*.

Spatial Clearance Verification Using 3D Laser Range Scanner and Augmented Reality
Hirotake Ishii, Shuhei Aoyama, Yoshihito Ono, Weida Yan, Hiroshi Shimoda, *Kyoto University, Japan*; Masanori Izumi, *Japan Atomic Energy Agency, Japan*.

IMAR: Highly Parallel Architecture for Markerless Augmented Reality in Aircraft Maintenance
Andrea Caponio, Mauricio Hincapie, Eduardo Gonzalez Mendivil, *ITESM - Monterrey Campus, Mexico*.

IDGD S205

Internationalization, Design and Global Development

Culture and Product Design

Room: Park

Chair(s): Haiying Wang, *Northeastern University, P.R. China.*

Decision Support System for Industrial Designer based on Kansei Engineering
Fu Guo, Long Ren, Zhenke He, Haiying Wang, *Northeastern University, P.R. China*.

Study on the Perception of Car Appearance based on Fuzzy Inference
Fu Guo, Yu Sun, Chao Chen, Haiying Wang, Chongyang Liu, *Northeastern University, P.R. China.*

Discussion of Design and Experiential Marketing in Ming-Show Pottery Cultural Creative Product
I-Yu Chen, Chi-Hsiung Chen, Cheng-Hsui Chen, *National Yunlin University of Science and Technology, Taiwan*.

A Study on the Application of Cultural Elements in Product Design
Wen-chih Chang, Ming-rein Hsu, *National Taiwan University of Science and Technology, Taiwan*.

Changing the TV Industry through User Experience Design
Daria Loi, *Intel Corporation, United States*.

OCSC S206

Online Communities and Social Computing

Next Generation Social Media: Mass Collaboration as a Business Model

Room: Taylor

Chair(s): Hans-Jorg Bullinger, *Fraunhofer, Germany*.

Social Computing for Home Energy Efficiency: Technological and Stakeholder Ecosystems
Marc Torrent-Moreno, Rafael Gimenez, Regina Enrich, *Barcelona Digital Technology Centre, Spain*; Jose Javier Garcia, *Barcelona Digital Technology Center, Spain*; Maria Perez, *Gas Natural Fenosa, Spain*.

A Context Centric Approach to Utilize Social Media Services on Public Terminals
Micha Block, Jasmin Link, *University of Stuttgart, Germany*; Simon Thiel, *Fraunhofer, Germany*.

CICRO: An Interactive Visual Interface for Crowd Communication Online
Masao Ohira, Hitoshi Masaki, Ken-ichi Matsumoto, *Nara Institute of Science and Technology, Japan*.

Online Design Discussion Sites: Emerging Resource for Creative Design
Moushumi Sharmin, *University of Illinois at Urbana-Champiagn, United States*; Brian Bailey, *University of Illinois at Urbana-Champaign, United States*.

A Real-time Disaster Situation Mapping System for University Campuses
Kayo Iizuka, *Senshu University, Japan*; Yasuki Iizuka, *Tokai University, Japan*; Kyoko Yoshida, *Senshu University, Japan*.

Online Crowdsourcing in the Public Sector: How to Design Open Government Platforms
Giordano Koch, *Zeppelin University, Germany*; Johann Fuller, *Hyve AG, Germany*; Sabine Brunswicker, *Fraunhofer, Germany*.

AC S207

Augmented Cognition

Applications of Functional Near Infrared Imaging Measurement

Room: Escambia

Chair(s): Banu Onaral, *Drexel University, United States*.

Brain in the Loop: Assessing Learning using fNIR in Cognitive and Motor Tasks
Patricia Shewokis, Hasan Ayaz, Meltem Izzetoglu, *Drexel University, United States*; Scott Bunce, *Penn State Milton S. Hershey Medical Center; Penn State College of Medicine, United States*; Rodolphe Gentili, *University of Maryland, United States*; Itamar Sela, Kurtulus Izzetoglu, Banu Onaral, *Drexel University, United States*.

Brain Activity of Young and Adult Hebrew Speakers During Lexical Decision Task: fNIR Application to Language
Itamar Sela, *Drexel University, United States*; Tsipi Horowitz–Kraus, *University of Haifa, Israel*; Meltem Izzetoglu, Patricia Shewokis, Kurtulus Izzetoglu, Banu Onaral, *Drexel University, United States*; Zvia Breznitz, *University of Haifa, Israel*.

Combining fNIRS and EEG to Improve Motor Cortex Activity Classification during an Imagined Movement-based Task
Darren Leamy, *NUI Maynooth, Ireland*; Ronan Collins, *Adelaide & Meath Hospital, Ireland*; Tomas Ward, *NUI Maynooth, Ireland*.

Estimation of Cognitive Workload during Simulated Air Traffic Control using Optical Brain Imaging Sensors
Hasan Ayaz, *Drexel University, United States*; Ben Willems, *Federal Aviation Administration, United States*; Scott Bunce, *Penn State Milton S. Hershey Medical Center; Penn State College of Medicine, United States*; Patricia Shewokis, Kurtulus Izzetoglu, *Drexel University, United States*; Sehchang Hah, Atul Deshmukh, *Federal Aviation Administration, United States*; Banu Onaral, *Drexel University, United States*.

Applications of Functional Near Infrared Imaging: Case Study on UAV Ground Controller
Kurtulus Izzetoglu, Hasan Ayaz, Justin Menda, Meltem Izzetoglu, Anna Merzagora, Patricia Shewokis, Kambiz Pourrezaei, Banu Onaral, *Drexel University, United States*.

Implementation of fNIRS for Monitoring Levels of Expertise and Mental Workload
Scott Bunce, *Penn State Milton S. Hershey Medical Center; Penn State College of Medicine, United States*; Kurtulus Izzetoglu, Hasan Ayaz, Patricia Shewokis, Meltem Izzetoglu, Kambiz Pourrezaei, Banu Onaral, *Drexel University, United States*.

DHM S208

Digital Human Modeling

Human Performance Modeling in Aviation

Room: Union

Chair(s): Jianwei Niu, *University of Science and Technology Beijing, P.R. China*; Zhizhong Li, *Tsinghua University, P.R. China*.

Anthropometric Measurement of the Feet of Chinese Children
Linghua Ran, Xin Zhang, Chunzhi Chao, Taijie Liu, *China National Institute of Standardization, P.R. China*.

Human Dimensions of Chinese Minors
Xin Zhang, *China National Institute of Standardization, P.R. China*; Yanyu Wang, *University of Science and Technology Beijing, P.R. China*; Linghua Ran, *China National Institute of Standardization, P.R. China*; Ailan Feng, Ketai He, *University of Science and Technology Beijing, P.R. China*; Taijie Liu, *China National Institute of Standardization, P.R. China*; Jianwei Niu, *University of Science and Technology Beijing, P.R. China*.

Ergonomics Evaluation of Three Operation Postures for Astronauts
Dongxu Li, *National University of Defence Technology, P.R. China*; Yan Zhao, *China Astronaut Training and Research Center, Beijing, China, P.R. China*.

Task Complexity related Training Effects on Operation Error of Spaceflight Emergency Task
Yijing Zhang, Bin Wu, *China Astronaut Training and Research Center, P.R. China*; Xiang Zhang, Wang Quanpeng, Min Liu, *China Astronaut Research and Training Center, P.R. China*.

Using Physiological Parameters to Evaluate Operator's Workload in Manual Controlled Rendezvous and Docking (RVD)
Bin Wu, *China Astronaut Training and Research Center, P.R. China*; Fang Hou, *University of Science and Technology Beijing, P.R. China*; Zhi Yao, *China Astronaut Research and Training Center, P.R. China*; Jianwei Niu, *University of Science and Technology Beijing, P.R. China*; Weifen Huang, *China Astronaut Research and Training Center, P.R. China*.

HCD S209

Human Centered Design

User-centered Smarter Products Design and Modeling

Room: Nassau

Chair(s): Karel Vredenburg, *IBM, Canada*; April Lewis, *Oak Ridge National Laboratory, United States*; Waldemar Karwowski, Tareq Ahram, *University of Central Florida, United States*.

Social Networking Applications: Smarter Product Design for Complex Human Behaviour Modeling
Tareq Ahram, Waldemar Karwowski, *University of Central Florida, United States*.

Smarter Design: Organizational, Methodological, and Technological Approaches
Karel Vredenburg, David Schwartz, *IBM, Canada*.

Virtual Office, Community Computing (VOCC), Designing an Energy Science Hub Collaboration System
April Lewis, Gilbert Weigand, *Oak Ridge National Laboratory, United States*.

Secure Online Game Play with Token: A Case Study in the Design of Multi-Factor Authentication Device
Shinji Yamane, *Aoyama Gakuin University, Japan*.

Smart Sol - Bringing User Experience to Facility Management: Designing the User Interaction of a Solar Control Unit
Patricia Bohm, Tim Schneidermeier, Christian Wolff, *University of Regensburg, Germany*.

Towards a paperless Air Traffic Control Tower
Tanja Bos, *NLR - National Aerospace Laboratory, Netherlands*; Marian Schuver – van Blanken, Hans Huisman, *Air Navigation Service Provider LVNL, Netherlands*.

The Impact of Human-Centred Design Workshops in Strategic Design Projects
Andre Liem, *Norwegian University of Science and Technology, Norway*; Elizabeth Sanders, *MakeTools LCC, United States*.

DUXU S210 S211

continues ▶▶

Design, User Experience, and Usability

User Experience in the Physical and Human Environment

Room: Lexington

Chair(s): Si Jung «Jun» Kim, *University of Central Florida, United States*.

Listen! Somebody is Walking towards Your Car (Introducing the Awareness-3D Sound System into the Driver to Increase the Pedestrian's Safety)
Mohammad Ardavan, Fang Chen, *Chalmers University of Technology, Sweden*.

DraWiing Together: Exploring Collaborative User Engagement in Art Exhibitions
Hyungsin Kim, *Georgia Institute of Technology, United States*; Hyun Jean Lee, *Yonsei University, Korea*; Ellen Yi-Luen Do, *Georgia Institute of Technology, United States*.

Experience-based Curiosity Model: Curiosity Extracting Model regarding Individual Experiences of Urban Spaces
Chihiro Sato, Shigeyuki Takeuchi, Naohito Okude, *Keio University, Japan*.

End-User Composition Interfaces for Smart Environments: A Preliminary Study of Usability Factors
Yngve Dahl, *SINTEF ICT, Norway*; Reidar-Martin Svendsen, *Telenor Corporate Development, Norway*.

A Guideline for an Outpatient Guidance System for Use in General Hospitals
Gunhee Kim, *Korea Institute of Science and Technology (KIST), Korea*; Jukyung Park, *Saarland University, Germany*; Manchul Han, Hyunchul Park, Dayoung Jung, Sehyung Park, *Korea Institute of Science and Technology (KIST), Korea*; Seongil Lee, *Sungkyunkwan University, Korea*; Sungdo Ha, *Korea Institute of Science and Technology (KIST), Korea*.

Multitouch Tables for Collaborative Object-based Learning
Jacob George, Eric De Araujo, Desiree Dorsey, Scott McCrickard, Greg Wilson, *Virginia Tech, United States*.

User Experience in Business

Room: Jade

Chair(s): Andreas Auinger, *Upper Austria University of Applied Sciences, Austria*.

A Multi-Tiered Approach to Enterprise Support Services
Coimbatore Chandersekaran, William Simpson, *Institute for Defense Analyses, United States*.

Electronic Invoicing in SMEs
Lasse Lumiaho, Jussi Ramanen, *Aalto University, Finland*.

The New Experience for Business: Why User Experience is the Differentiation Strategy in the Cloud Context
Andrey Sirotkin, Bronan McCabe, *VTT Technical Research Centre of Finland, Finland*.

A Study of Rapid Business Application Development in the Cloud
Jie Cui, Jing Min Xu, *IBM Research, P.R. China*; Huiping Lin, Weiping Li, Zi Mu Sun, *Peking University, P.R. China*.

User Studies on Mobile Ticketing
Jussi Ramanen, Sirpa Riihiaho, *Aalto University, Finland*; Mikko Erkkila, Antti Seppala, *Tieto Corporation, Finland*.

THURSDAY 16:00 - 18:00

DUXU S212

Usability Studies

Room: **Fulton**

Chair(s): Martin Maguire, *Loughborough University, United Kingdom.*

User Perception of Touch Screen Latency
Glen Anderson, Rina Doherty, Subhashini Ganapathy, *Intel Corporation, United States.*

A Camera-aided Legibility Assessment Protocol of Displays for Enhanced Human-computer Interaction
Hongyi Cai, *University of Kansas, United States.*

Effects of Menu Types and Item Lengths on Operation Efficiency
Yu-Hsuan Chang, T. K. Philip Hwang, *National Taipei University of Technology, Taiwan.*

Effects of Physical Display Size on GUI Designers' Perception and Implementation of Usability Guidelines
Selvihan Kaptan, *Bahcesehir University, Turkey*; Mehmet Gokturk, *Gebze Institute of Technology, Turkey.*

Usability Analysis in Gesture Operation of Interactive E-books on Mobile Devices
Ching-Hua Huang, Chao-Ming Wang, *National Yunlin University of Science and Technology, Taiwan.*

Optimisation of Sound Localisation for Emergency Vehicle Sirens through a Prototype Audio System
John David Moore, Stephen Boslem, Vassilis Charissis, *Glasgow Caledonian University, United Kingdom.*

Note:
The number of the poster board is indicated on the left.

Posters Available for viewing at the following hours:

Tuesday	**12 July**	**09:00 - 18:30**
Wednesday	**13 July**	**09:00 - 18:30**
Thursday	**14 July**	**09:00 - 18:00**

001. **Usability Methods Planner Tool**
Nigel Bevan, *Professional Usability Services, United Kingdom*; Xavier Ferre, Tomas Anton-Escobar, *Universidad Politecnica de Madrid, Spain*.

002. **An Optimal Human Adaptive Algorithm to find Action- Reaction Word-pairs**
Arpit Agarwal, Rahul Banerjee, Varun Pandey, Riya Charaya, *Birla Institute of Technology & Science, Pilani, India*.

003. **Calibration Time Reduction through Source Imaging in Brain Computer Interface (BCI)**
Minkyu Ahn, Hohyun Cho, Sung Chan Jun, *Gwangju Institute of Science and Technology (GIST), Korea*.

004. **How much Features in Brain-Computer Interface are Discriminative? – Quantitative Measure by Relative Entropy**
Sangtae Ahn, Sungwook Kang, Sung Chan Jun, *Gwangju Institute of Science and Technology (GIST), Korea*.

005. **Becoming Friends on Online Social Networking Services**
Wonmi Ahn, Borum Kim, Kwang-Hee Han, *Yonsei University, Korea*.

006. **A Three-Dimensional Fingertip Interface**
Yangkeun Ahn, Kwangmo Jung, *Korea Electronics Technology Institute, Korea*; Jiman Hong, *Soongsil University, Korea*.

007. **An Interactive Multimedia System for Monitoring the Progressive Decline of Memory in Alzheimer's Patients**
Hala Al-Muhanna, Rawan Alwabil, Hailah Al-Mazrua, Noura Al-Fadhel, Areej Al-Wabil, *King Saud University, Saudi Arabia*.

008. **Modeling Users in Web Transactional Tasks with Behavioral and Visual Exploration Patterns**
Areej Al-Wabil, Mashael Al-Saleh, *King Saud University, Saudi Arabia*.

009. **Personal Smart Space for Diabetics**
Manal AlBahlal, Jalal AlMuhtadi, *King Saud University, Saudi Arabia*.

010. **Contextual Awareness as Measure of Human-Information Interaction in Usability and Design**
Michael Albers, *East Carolina University, United States*.

011. **On the Applicability of Digital Human Models for Personal Equipment Design**
Thomas Alexander, Jessica Conradi, *Fraunhofer, Germany*.

012. **User Interface Design for the Interactive Use of Online Spoken German Journalistic Texts for the International Public**
Christina Alexandris, *University of Athens, Greece*.

013. **Introducing CAPER, a Collaborative Platform for Open and Closed Information Acquisition, Processing and Linking**
Carlo Aliprandi, *Synthema Srl, Italy*; Andrea Marchetti, *Consiglio Nazionale delle Ricerche (CNR), Italy*.

014. **The Evaluation of the Applicability of Distance Education in Vocational Colleges by the Students of Erzurum Vocational College, Computer Technologies Department, Erzurum, Turkey**
Yusuf Ziya Ayik, *Ataturk University, Turkey*.

015. **An Efficient Algorithm for Performance Evaluation of Job Stress and HSE Factors in Petrochemical Plants with Noise and Uncertainty**
Ali Azadeh, *University of Tehran, Iran*; Mahsa Rouzbahman, *University of Toronto, Canada*; Mortezza Saberi, *University of Tafresh, Iran*; Iraj Mohammadfam, *University of Hamadan Medical Science, Iran*.

016. **An Adaptive Neural Network Algorithm for Assessment and Improvement of Job Satisfaction with Respect to HSE and Ergonomics Program: The Case of a Gas Refinery**
Ali Azadeh, *University of Tehran, Iran*; Mahsa Rouzbahman, *University of Toronto, Canada*; Mortezza Saberi, *University of Tafresh, Iran*; Iraj Mohammadfam, *University of Hamadan Medical Science, Iran*.

017. **Evaluating Information Visualizations with Working Memory Metrics**
Alisa Bandlow, Laura Matzen, Kerstan Cole, Courtney Dornburg, Charles Gieseler, John Greenfield, Laura McNamara, Susan Stevens-Adams, *Sandia National Laboratories, United States*.

018. **Secure Transmission of Medical Images by SSH Tunneling**
Felipe Basile, *Universidade Mogi das Cruzes, Brazil*; Flavio Cezar Amate, *Universidade de Mogi das Cruzes / UMC, Brazil*.

019. **Measuring Human Interaction in Digital Television Using Profiles and Geolocation**
Valdecir Becker, *University of Sao Paulo, Brazil*; Mercelo Knorich Zuffo, *State University of Sao Paulo, Brazil*.

020. **A Study on Human Error in the Interaction with the Computer Systems**
Luiz Begosso, *(1)Fundacao Educacional do Municipio de Assis - FEMA. (2)FATEC - Ourinhos., Brazil*; Maria Alice Siqueira Mendes Silva, *Universidade Estadual Paulista - UNESP, Brazil*; Thiago Henrique Cortez, *Fundacao Educacional do Municipio de Assis - FEMA, Brazil*.

021. **Rule Based Trajectory Segmentation Applied to an HMM-based Isolated Hand Gesture Recognizer**
Jounghoon Beh, *University of Maryland, United States*; David Han, *Office of Naval Research, United States*; Hanseok Ko, *Korea University, Korea*.

022. **Professional Graphic Designers Approaching Visual Interface Design**
Joanne Beriswill, *Mississippi State University, United States*.

023. **Black Boxes Debunked: What Graphic Designers Wish You Knew**
Joanne Beriswill, *Mississippi State University, United States*.

024. **Sounds in Space: 3D Audio Experiences through Tangible Navigation**
Andrew Blakney, Sudhir Mudur, *Concordia University, Canada*.

025. **Digital Inclusion Index (DII) - Measuring ICT Supply and Usage to Support DI Implementation Planning Policies**
Graziella Bonadia, Nyvea Silva, Cristiane Ogushi, *CPqD Foundation, Brazil*.

026. **An Evaluation of SignBright: A Storytelling Application For Sign Language Acquisition and Interpersonal Bonding Amongst Deaf and Hard of Hearing Youth and Caregivers.**
Melissa Burton, Chad Harbig, Mariam Melkumyan, Lei Zhang, Jiyoung Choi, *Iowa State University, United States*.

027. **Serious Game for Cognitive Testing of Elderly**
Sangwoo Byun, Changhoon Park, *Hoseo University, Korea*.

028. **A Usability Model for Government Web Sites**
Deborah Carstens, Annie Becker, *Florida Institute of Technology, United States*.

029. **Co-discovery Method and its Application with Children as Research Subjects**
Alessandra Carusi, Claudia Mont'Alvao, *PUC - Rio de Janeiro, Brazil*.

030. **Discussing Validation of 3D Character Animation Demonstrating Ushiro-Ukemi Pedagogical Progression**
Mauro Carvalho, Bruno Carvalho, Felipe Carvalho, Heidi DO Junior, Gerson G Cunha, Luiz Landau, Estelio HM Dantas, *Federal University of Rio de Janeiro, Brazil*.

031. **Collaborative Analysis and Communities of Practice in Health Sciences**
Juan Alberto Castillo, *Universidad del Rosario, Colombia*.

032. **EEG-based Measurement of Subjective Parameters in Evaluations**
Daniel Cernea, Peter-Scott Olech, Achim Ebert, *University of Kaiserslautern, Germany*; Andreas Kerren, *Linnaeus University, Sweden*.

033. **Digital Modeling of Manual Lifting Joint Trajectories Using Two Different Interpolation Approaches**
Chien-Chi Chang, Xu Xu, *Liberty Mutual Research Institute for Safety, United States*; Gert Faber, *Harvard School of Public Health, United States*; Idsart Kingma, *VU University Amsterdam, Netherlands*; Jack Dennerlein, *Harvard School of Public Health, United States*.

034. **Leisure Activities for the Elderly - The Influence of Visual Working Memory on Mahjong and Its Video Game Version**
Chih-Lin Chang, *Hsiuping Institute of Technology, Taiwan*; Tai-Yen Hsu, *National Taichung University, Taiwan*; Fang-Ling Lin, Chuen-Der Huang, *Hsiuping Institute of Technology, Taiwan*; I-Ting Huang, *National Taichung University, Taiwan*.

035. **PC-based Warning Mechanism System of Fall Risk in Elderly**
Chih-Sheng Chang, *Fo Guang University, Taiwan*; Cherng-Yee Leung, *Tatung University, Taiwan*; Jeih-Jang Liou, *Fo Gung University, Taiwan*.

036. **Usability Analysis Of Website With Unconventional Layout**
Ro-Han Chang, Ying-Ya Su, *Chung Yuan Christian University, Taiwan*.

037. **Multi-touch Surface Table with Multi-point Tactile Feedback**
Siam Charoenseang, Navakun Sribang, *King Mongkut's University of Technology Thonburi (KMUTT), Thailand*.

038. **Human–Robot Collaboration with Augmented Reality**
Siam Charoenseang, Tarinee Tonggoed, *King Mongkut's University of Technology Thonburi (KMUTT), Thailand*.

039. **An Empathic Approach in Assistive Technology to Provide Job Accommodations for Disabilities**
Chien-Bang Chen, *De Montfort University, United Kingdom*.

040. **The Application of Interactive Media Display Technology in Environmental Science Learning**
Chun-Ching Chen, Chien-Ming Chen, *National Taipei University of Technology, Taiwan*.

041. **A Study on Interface Design Guidelines of Web Maps for Elder Users**
Chun-Wen Chen, Kevin Tseng, *Chang Gung University, Taiwan*.

042. **A Study on the C/R Ratio of Direct-Operation Multi-Touch Interface**
Kuan-Hung Chen, Chun-Wen Chen, Wenzhi Chen, *Chang Gung University, Taiwan*.

043. **The Provision of Digital Information in the Seat Comfort of the Seat Design**
Kuen-Meau Chen, *National United University, Taiwan*; Siu-Tsen Shen, *National Formosa University, Taiwan*; Stephen Prior, *Middlesex University, United Kingdom*.

044. **Suggested Considerations on the Design of Multi-touch Interfaces for Commercial Presentation**
Ting-Han Chen, *XXtraLab DESIGN Co., Taiwan*.

045. **Impact of Prior Knowledge and Computer Interface Organization in Information Searching Performances: A Study Comparing Younger and Older Web Users**
Aline Chevalier, *Universite de Toulouse, France*; Paulette Rozencwajg, Benjamin Desjours, *Universite Paris Ouest Nanterre, France*.

046. **The Problematic of Beauty Performed in the Collaborative Action of Technology and Human**
HyunKyoung Cho, *ASPECT, Virginia Tech, United States*.

047. **The Politics of Collaborative Action of Technology and Human**
HyunKyoung Cho, *ASPECT, Virginia Tech, United States*.

048. **Making Pixel Patterns Automatically for Camouflage - Using Color Information from their Background**
Woon Jung Cho, Wonmi Ahn, Myungshik Kim, Jeeyea Park, Seungduk Kim, Kwang-Hee Han, *Yonsei University, Korea*.

049. **How the Shapes of School Emblems for Colleges Convey Imagery**
Mu-Chien Chou, *Chungyu Institute of Technology, Taiwan*.

050. **Methodologies for Evaluating Player Experience in Game Play**
Kimberly Chu, Chui Yin Wong, Chee Weng Khong, *Multimedia University, Malaysia*.

051. **System of Systems for Sensor and Actuator Networks**
Tiffany Elise Chua, Mark Merlo, Mark Bachman, *University of California, Irvine, United States*.

052. **Smart Clothes Are New Interactive Devices**
Gi-Soo Chung, *Korea Institute of Industrial Technology (KITECH), Korea*; Hee-Cheol Kim, *inje University, Korea*.

053. **Service Components for Unified Communication and Collaboration of an SOA-based Converged Service Platform**
Ki-Sook Chung, Young-Mee Shin, *Electronics and Telecommunications Research Institute (ETRI), Korea*.

054. **Get Your Mobile App out the Door**
Heather Cottingham, Michele Snyder, *Oracle, United States*.

055. **Sketching Haptic System Based on Point-based Approach for Assisting People with Down Syndrome**
Mario Covarrubias, Monica Bordegoni, Umberto Cugini, *Politecnico di Milano, Italy*.

056. **Extensible CP-based Autonomous Search**
Broderick Crawford, Ricardo Soto, *Pontificia Universidad Catolica de Valparaiso, Chile*; Carlos Castro, Eric Monfroy, *Universidad Tecnica Federico Santa Maria, Chile*.

057. **The effect of damping in an input device on human positioning performance**
Koen Crommentuijn, Dik Hermes, *Eindhoven University of Technology, Netherlands*.

058. **How Does This Look? Desirability Methods for Evaluating Visual Design**
Edward De Guzman, Julie Schiller, *Autodesk, Inc., United States*.

059. **Decision Making under Stressful Conditions – A VR Study within the European Project SAVE ME**
Marcel Delahaye, Patrick Lemoine, Evelyne Stucki, *COAT Basel, Switzerland*; Phil Blythe, Gareth Evans, *University of Newcastle upon Tyne, United Kingdom*; Evangelos Bekiaris, Mary Panou, *Centre for Research and Technology Hellas (CERTH), Greece*; Marc Graf, Ralph Mager, *COAT Basel, Switzerland*.

060. **Multi-Touch Table as Conventional Input Device**
Andreas Dippon, *Technische Universitat Munchen, Germany*; Florian Echtler, *Munich University of Applied Sciences, Germany*; Gudrun Klinker, *Technische Universitat Munchen, Germany*.

061. **Applying User-Centered Techniques to Develop a Radiology Teaching File System**
Marcelo Dos Santos, Asa Fujino, *University of Sao Paulo, Brazil*.

062. **Fine-Grained Adaptive User Interface for Personalization of a Word Processor: Principles and a Preliminary Study**
Martin Dostal, Zdenek Eichler, *Palacky University of Olomouc, Czech Republic*.

063. **On the Differences in Usage of Word Processing Applications**
Martin Dostal, *Palacky University of Olomouc, Czech Republic*.

064. **An Analysis of Usage Patterns in Utilization of Interaction Styles**
Martin Dostal, *Palacky University of Olomouc, Czech Republic*.

065. **A Hybrid Approach to User Activity Instrumentation in Software Applications**
Martin Dostal, Zdenek Eichler, *Palacky University of Olomouc, Czech Republic*.

066. **Head-Free, Remote Eye-Gaze Detection System with Easy Calibration Using Stereo-Calibrated Two Video Cameras**
Yoshionbu Ebisawa, Kazuki Abo, Kiyotaka Fukumoto, *Shizuoka University, Japan*.

067. **Development of Learning Achievement Index for Project Human Resource Management**
Yusuke Emori, Takuya Furusawa, Tsutomu Konosu, *Chiba Institute of Technology, Japan*.

068. **Virtual Bridge: AR-based Mobile Interaction for Easy Multimedia Control of Remote Home Devices**
DongJin Eun, Taik Heon Rhee, Seonghoon Kang, Minsuk Choi, Sangil Lee, Hark-Joon Kim, *SAMSUNG Electronics, Korea*.

069. **What Makes Difference in Mobile Application Sales in Countries?**
Hyeyoung Eun, Hyunsuk Kim, Sungmin Hong, *Hongik University, Korea*.

070. **Quality and Usability Assessment for Health Information Websites: Can Commonly Used Evaluation Criteria be Appropriately Applied to Assess Chinese-Language Websites?**
Chang Fang-Fang, Ku Chia-Hua, Wang Kung-Jeng, *National Taiwan University of Science and Technology, Taiwan*; Wu Wei-Li, *National Taiwan Normal University, Taiwan*.

071. **Usability Study of TEL Recommender System and E-assessment Tools United**
Beatriz Florian, Ramon Fabregat, *University of Girona, Spain*.

072. **Design and Development of Information Display Systems?for Monitoring Overboard**
Tadasuke Furuya, *Tokyo University of Marine Science and Technology, Japan*; Atsushi Suzuki, Atsushi Shimamura, Takeshi Sakurada, Yoichi Hagiwara, Takafumi Saito, *Tokyo University of Agriculture and Technology, Japan*.

073. **Perceived Multimedia Quality: the Impact of Device Characteristics**
Gheorghita Ghinea, Kyle Patterson, *Brunel University, United Kingdom*.

074. **Design and Implementation of a Low-cost Projected Virtual Reality System to Support Learning Processes**
Rodrigo Gomez, Helmuth Trefftz, *EAFIT University, Colombia*.

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219. **User research for senior users**
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220. **Kansei Modeling on Visual Impression from Small Datasets**
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General Information

Conference Location

The Conference is hosted at the Hilton Orlando Bonnet Creek hotel, Orlando's newest AAA 4-Diamond hotel. Adjacent to Hilton is Waldorf Astoria® Orlando, the first newly built Waldorf Astoria® since the legendary original in New York City. Both are in an enviable location called Bonnet Creek with a prime location in the heart of 482 acres of mature woodlands and natural waterways, surrounded on three sides by Walt Disney World® Resort. The hotel offers complimentary shuttle service to the four major Disney theme parks: Magic Kingdom, EPCOT, Animal Kingdom, and Hollywood Studios.

Orlando is located near the geographic center of Florida. Its year-round mild weather is one of the reasons why the Orlando area has become a popular tourist, vacation and business travel destination. The city annually hosts thousands of events, trade shows, conferences, meetings and other business-oriented gatherings. The Kennedy Space Center, the Walt Disney World Resort, the Universal Studios, the Central Florida Zoological Park, are some of Orlando's famous attractions.

Gala Reception

The Gala Reception will take place right after the Opening Plenary Session, on Monday, 11 July 2011.

All Conference participants and accompanying persons, who carry an HCI International 2011 badge, will be permitted entrance.

Extra Gala Reception Tickets will be available from the Conference Secretariat by Monday, 11 July, 17:00 hrs.

Important note: Service of alcoholic beverages is subject to state and local laws. You must be of legal drinking age to drink alcohol. Please be ready to provide your ID upon request.

Coffee Breaks

Day / Time	Saturday, 9 July	Sunday, 10 July	Monday, 11 July	Tuesday, 12 July	Wednesday, 13 July	Thursday, 14 July
10:00 - 10:30			Citrus / Collier	Bonnet Creek Ballroom	Bonnet Creek Ballroom	Bonnet Creek Ballroom
10:30 - 11:00	Citrus / Collier	Citrus / Collier				
15:00 - 15:30			Citrus / Collier			
15:30 - 16:00	Citrus / Collier	Citrus / Collier		Bonnet Creek Ballroom	Bonnet Creek Ballroom	Bonnet Creek Ballroom

Lunch

Participants are kindly asked to make their own arrangements for lunch, during the following lunch breaks:

Saturday, 9 July	12:30 - 14:00		Tuesday, 12 July	12:30 - 13:30
Sunday, 10 July	12:30 - 14:00		Wednesday, 13 July	12:30 - 13:30
Monday, 11 July	12:00 - 13:30		Thursday, 14 July	12:30 - 13:30

Internet Park

PCs with Internet connectivity will be provided in the Internet Park. Participants carrying their own portable equipment can use the available slots provided to connect their equipment or through the available WiFi network.

The Internet Park is open during the following hours:

Internet Park Timetable		Location
Saturday, 9 July	**09:00 - 18:00**	**Bonnet Creek Ballroom Foyer North**
Sunday, 10 July		
Monday, 11 July	**09:00 - 17:00**	
Tuesday, 12 July	**09:00 - 18:00**	**Inside Bonnet Creek Ballrom**
Wednesday,13 July		
Thursday, 14 July		

Speakers' preparation room

The speakers' preparation room (*Room:* **Broward**) is equipped with a laptop computer and a projector for PowerPoint presentations.

Speakers' preparation room	
Tuesday, 12 July	**09:00 - 18:00**
Wednesday,13 July	
Thursday, 14 July	

Information for Presenters

Paper Presentations

Papers are allocated approximately 15 minutes for presentation, with an additional 2-3 minutes for questions and answers following each talk. Session Chairs introduce the speakers and moderate the discussion.

Each presentation room will be equipped with a laptop computer and a projector for PowerPoint presentations. The available software may also allow for other types of presentations, such as embedded videos.

Hardware specifications of laptops:

- Intel Core2 Duo T7500 or better
- 1GB memory or better
- VGA Nvidia Quadro NVS 135M or better
- DVD/CD

Software available on laptops (all in English language):

- MS Windows XP Pro SP3
- MS Office 2007
- MS Internet Explorer 8
- MS Windows Media Player
- Adobe Acrobat Reader

Laptops will have a USB port accepting USB memory devices.

Presenters who wish to run specialized software need to bring their own laptop. Prior to their session, they should inform the session chair and test that their computer works with the projector in the room.

MAC computers are also acceptable. MAC users must bring their own adapter to connect to the VGA cable or their own cable.

Internet connection will be available in the presentation rooms.

Poster Presentation

Poster set-up will take place between
09:00 and 11:00 on Tuesday 12 July 2011.

Poster removal will take place between
18:00 and 20:00 on Thursday 14 July 2011.

The posters will be mounted on poster boards (one poster per board - with landscape orientation) with push pins which will be available on site.

The size of the poster boards is:

- Width: 48 inches (1,22 meters)
- Length: 96 inches (2,43 meters)
- Height: 78 inches (1,98 meters)

while the usable area size is:

- Length: 94 inches (2,38 meters)
- Height: 46 inches (1,17 meters)

Presenters can mount multiple single sheets of paper, larger posters, pictures, or any printed materials on the boards.

The poster area will be located together with the Exhibition area at the **Bonnet Creek Ballroom**.

Both areas will be open the following hours:

- Tuesday, 12 July, 09:00 to 18:30
- Wednesday, 13 July, 09:00 to 18:30
- Thursday 14 July, 09:00 to 18:00

Authors of posters are kindly asked to make themselves available during these days of the Conference to present their work and answer questions about their poster to Conference participants.

It is up to the presenters to arrange the date(s) and time(s) they will be available. They may wish to indicate on the poster board when they will be available to provide brief presentations and answer questions about their poster to Conference participants.

Exhibitors

Exhibits may not be dismantled or removed until the close of the Exhibition. All exhibitor materials must be removed from the exhibit facility by 14 July at 21:00 hrs. Exhibitors should arrange with their carrier to pick-up their outbound freight directly from the facility:

HILTON ORLANDO BONNET CREEK
14100 BONNET CREEK RESORT LANE
ORLANDO, FL 32821

To ensure all exhibitor materials are removed from the exhibit facility by the Exhibitor Move-Out deadline, all carriers should check-in by 14 July at 20:00 hrs.

Message Boards

Three message boards will be allocated near the Conference Secretariat, at the **Bonnet Creek Ballroom Foyer North**:

- one for announcements of the Conference Organizers,
- one for use by the Conference participants, and
- one for job announcements

Display Boards and Tables

Display boards and tables for Conference participants who wish to share or distribute promotional material, are available near the Conference Secretariat, at the **Bonnet Creek Ballroom Foyer North**.

Smoking Policy

HCI International 2011 is a smoke-free Conference. There are easily accessible outdoor areas at the Convention Center where smoking is permitted.

Mobile Phone Courtesy

HCI International 2011 requests that all mobile phones, pagers and other equipment with audible alarms be turned off in all sessions as a courtesy to the presenters and to the other attendees.

Business Center IKON

The Hilton Orlando Bonnet Creek Business Center, is located in the **Ground Level**, next to the stairs, providing a wide range of services. Open:

Monday - Friday	7:00 - 19:00
Saturday - Sunday	8:00 - 17:00

HCI International News

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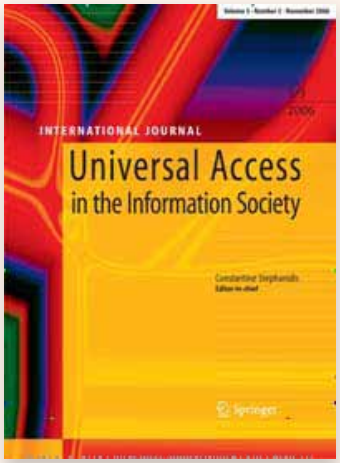

ISSN 1615-5289 (print)
ISSN 1615-5297 (electronic)

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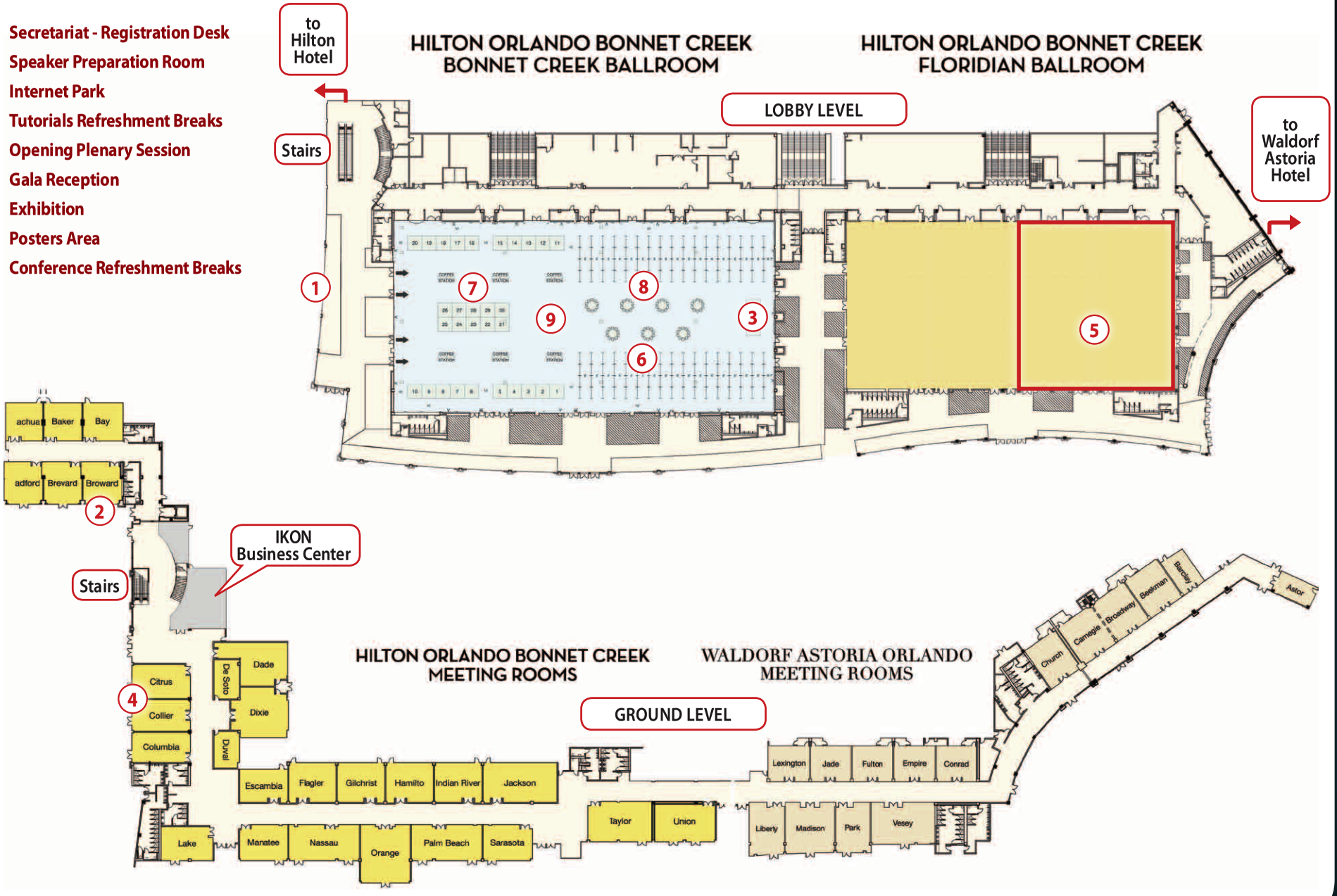
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