

HCI 2015 International

17th International Conference
on Human - Computer
Interaction

Thematic areas
Human-Computer Interaction

Human Interface and the Management
of Information

Affiliated conferences

12th International Conference on
**Engineering Psychology and Cognitive
Ergonomics**

9th International Conference on
Universal Access in Human-Computer Interaction

7th International Conference on
Virtual, Augmented and Mixed Reality

7th International Conference on
Cross-Cultural Design

7th International Conference on
Social Computing and Social Media

9th International Conference on
Augmented Cognition

6th International Conference on
**Digital Human Modeling and Applications in
Health, Safety, Ergonomics and Risk Management**

4th International Conference on
Design, User Experience and Usability

3rd International Conference on
Distributed, Ambient and Pervasive Interactions

3rd International Conference on
**Human Aspects of Information Security, Privacy
and Trust**

2nd International Conference on
HCI in Business

2nd International Conference on
Learning and Collaboration Technologies

1st International Conference on
Human Aspects of IT for the Aged Population

2 -7 August 2015
Los Angeles, CA, USA



HCI 2015
International

Final Program



<http://2015.hci.international>



Under the auspices of 15 distinguished
international boards of 386 Board Members
from 46 countries



**Conference Founder,
General Chair Emeritus and
Scientific Advisor**

Gavriel Salvendy
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 **CALIFORNIA FOYER**, during the following hours:

Saturday, 1 August	16:00 - 18:00
Sunday, 2 August	08:00 - 17:30
Monday, 3 August	08:00 - 17:30
Tuesday, 4 August	08:00 - 17:30
Wednesday, 5 August	07:30 - 18:00
Thursday, 6 August	07:30 - 18:00
Friday, 7 August	07:30 - 18:00

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:

<https://www.surveymonkey.com/r/HCI2015>



or scan the QR-Code on the left

The survey will be available until 7 September 2015

PROGRAM

Sunday 2 August 2015	09:00 - 17:30	Tutorials Day 1 - <i>page 13</i>
Monday 3 August 2015	09:00 - 17:30	Tutorials Day 2 - <i>page 13</i>
Tuesday 4 August 2015	09:00 - 17:30	Tutorials Day 3 - <i>page 13</i>
	18:00 - 19:30	Opening Plenary Session - Room: CALIFORNIA BALLROOM Keynote Speech - <i>page 5</i> “Personalized Search: Potential and Pitfalls” by: Susan Dumais Distinguished Scientist & Deputy Managing Director Microsoft Research Lab, Redmond
	19:30	Conference Reception - <i>page 8</i>
Wednesday 5 August 2015	08:00 - 18:00	Parallel paper presentations, Day 1 - <i>page 20</i> Poster presentations, Day 1 - <i>page 88</i> Exhibition, Day 1 - <i>page 10</i>
Thursday 6 August 2015	08:00 - 18:00	Parallel paper presentations, Day 2 - <i>page 44</i> Poster presentations, Day 2 - <i>page 88</i> Exhibition, Day 2 - <i>page 10</i>
Friday 7 August 2015	08:00 - 18:00	Parallel paper presentations, Day 3 - <i>page 68</i> Poster presentations, Day 3 - <i>page 88</i> Exhibition, Day 3 - <i>page 10</i>



HCI International 2015 - Welcome Note



Gavriel Salvendy

Conference Founder,
General Chair Emeritus
and Scientific Advisor

Dear Colleague,

It is with great honor and pleasure that I welcome you to HCI International 2015, the 17th International Conference on Human-Computer Interaction, held in Los Angeles, CA, USA, 2-7 August, incorporating 15 Conferences / Thematic Areas:

- Human-Computer Interaction Thematic Area
- Human Interface and the Management of Information Thematic Area
- 12th International Conference on Engineering Psychology and Cognitive Ergonomics
- 9th International Conference on Universal Access in Human-Computer Interaction
- 7th International Conference on Virtual, Augmented and Mixed Reality
- 7th International Conference on Cross-Cultural Design
- 7th International Conference on Social Computing and Social Media
- 9th International Conference on Augmented Cognition
- 6th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management
- 4th International Conference on Design, User Experience and Usability
- 3rd International Conference on Distributed, Ambient and Pervasive Interactions
- 3rd International Conference on Human Aspects of Information Security, Privacy and Trust
- 2nd International Conference on HCI in Business
- 2nd International Conference on Learning and Collaboration Technologies
- 1st International Conference on Human Aspects of IT for the Aged Population



Constantine Stephanidis

General Chair HCII 2015

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 2015 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. HCI International 2015 and the affiliated Conferences / Thematic Areas 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 28-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. All volumes of the Proceedings in PDF format are also included in

a DVD provided in your registration bag. They are also available for sale from Springer in soft cover print format.

An impressive number of around 2000 individuals from 63 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 Dr. Susan Dumais, Distinguished Scientist & Deputy Managing Director, Microsoft Research Lab, Redmond, USA, has joined us as the keynote speaker at the opening plenary session.

Sixteen awards will be conferred during the opening plenary session. The awards, in the form of a plaque and a certificate, will be presented to the author(s) of the Best Paper of each Affiliated Conference / Thematic Area, and of the Best Poster Extended Abstract.

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 Los Angeles.

Constantine Stephanidis

HCI International 2016

The 18th International Conference on Human-Computer Interaction, HCI International 2016, will be held jointly with the affiliated Conferences / Thematic Areas, in Toronto, Canada, at the Westin Harbour Castle Hotel, 17-22 July 2016.

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 plenary session with a keynote address, and an exhibition. The proceedings will be published by Springer.

General Chair: Constantine Stephanidis
University of Crete and ICS-FORTH Heraklion, Crete, Greece
Email: general_chair@hcii2016.org

2016.hci.international

Opening Plenary Session

Tuesday, 4 August 2015 | 18:00

Room: **CALIFORNIA BALLROOM**

Personalized Search: Potential and Pitfalls

Susan Dumais

Distinguished Scientist
& Deputy Managing Director
Microsoft Research Lab,
Redmond

Abstract

Traditionally search engines have returned the same results to everyone who asks the same question. However, using a single ranking for everyone in every context at every point in time limits how well a search engine can do in providing relevant information.

In this talk I outline a framework to quantify the “potential for personalization” which we use to characterize the extent to which different people have different intents for a query. I describe several examples of how we represent and use different kinds of contextual features to improve search quality for individuals.

Finally I conclude by highlighting important challenges in developing personalized systems at Web scale including control and transparency, serendipity, and evaluation.



Susan Dumais
Biographical Sketch

Susan Dumais is a Distinguished Scientist at Microsoft and Deputy Managing Director of the Microsoft Research Lab in Redmond. Prior to joining Microsoft Research, she was at Bell Labs and Bellcore, where she worked on Latent Semantic Analysis, techniques for combining search and navigation, and organizational impacts of new technology. Her current research focuses on user modeling and personalization, context and search, temporal dynamics of information, and gaze-enhanced interaction. She has worked closely with several Microsoft groups (Bing, Windows Desktop Search, SharePoint, and Office Online Help) on search-related innovations. Susan has published widely in the fields of information science, human-computer interaction and cognitive science, and holds several patents on novel retrieval algorithms and interfaces. Susan is also an adjunct professor in the Information School at the University of Washington. She is Past-Chair of ACM's Special Interest Group in Information Retrieval (SIGIR), and serves on several editorial boards, technical program committees, and government panels. She was elected to the CHI Academy in 2005, an ACM Fellow in 2006, received the SIGIR Gerard Salton Award for Lifetime Achievement in 2009, was elected to the National Academy of Engineering (NAE) in 2011, received the ACM Athena Lecturer Award in 2014, and received the Tony Kent Strix Award in 2014.

International Program Boards

Human-Computer Interaction

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Sebastiano Bagnara, ITALY
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Wonil Hwang, KOREA
Yong Gu Ji, KOREA
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Mitsuhiko Karashima, JAPAN
Heidi Krömker, GERMANY
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Glyn Lawson, UK
Cristiano Maciel, BRAZIL
Chang S. Nam, USA
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Toshiki Yamaoka, JAPAN
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Alvin W. Yeo, MALAYSIA

Engineering Psychology and Cognitive Ergonomics

Program Chair:

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Shan Fu, P.R. CHINA
Hung-Sying Jing, TAIWAN
Mike Lenne, AUSTRALIA
Wen-Chin Li, UK
Mark Neerincx, THE NETHERLANDS
Jan Noyes, UK
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Axel Schulte, GERMANY
Siraj Shaikh, UK
Sarah Sharples, UK
Neville Stanton, UK
Andrew Thatcher, SOUTH AFRICA

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Tomio Watanabe, JAPAN

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

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Cheng Yi, P.R. CHINA
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Virtual, Augmented and Mixed Reality

Program Chairs:

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Human Aspects of IT for the Aged Population

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Distributed, Ambient and Pervasive Interactions

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Sonia Sousa, PORTUGAL
Aimilia Tzanavari, CYPRUS
Stefan Trausan-Matu, ROMANIA
Johnny Yuen, HONG KONG
Maria Zenios, CYPRUS

Human Aspects of Information Security, Privacy and Trust

Program Chairs:

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Zinaida Benenson, GERMANY
Kim-Kwang Raymond Choo, AUSTRALIA
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Nathan Clarke, UK
Lynne Coventry, UK
Marc Dacier, USA
Ernesto Damiani, ITALY
Simone Fischer-Huebner, SWEDEN
Steven Furnell, UK
Tyrone Grandison, USA
Sigrid Gürgens, GERMANY
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Dong-Seong Kim, NEW ZEALAND
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Kai-Uwe Loser, GERMANY
Muthucumaru Maheswaran, CANADA
Steve Marsh, CANADA
Noluntu Mpekoa, SOUTH AFRICA
Yuko Murayama, JAPAN
Masakatsu Nishigaki, JAPAN
Jason Nurse, UK
M. Maina Olembo, GERMANY
Joon S. Park, USA
Aljosa Pasic, SPAIN
Milan Petković, THE NETHERLANDS
Joachim Posegga, GERMANY
Sören Preibusch, UK
Jean-Jacques Quisquater, BELGIUM
Pierangela Samarati, ITALY
Damien Sauveron, FRANCE
George Spanoudakis, UK
Ken Stavinoha, USA
Mary Frances Theofanos, USA
Kerry-Lynn Thomson, SOUTH AFRICA
Claire Vishik, UK
Melanie Volkamer, GERMANY
Egdar Weippl, AUSTRIA
Steffen Wendzel, GERMANY
Yao Zhao, P.R. CHINA

General Information

Conference Reception

The Conference Reception will take place at 19:45 (right after the Opening Plenary Session) at **PLAZA POOL DECK** on Tuesday, 4 August 2015.

All Conference participants and accompanying persons, who carry an HCI International 2015 badge, will be permitted entrance.

Extra Conference Reception Tickets will be available from the Conference Secretariat until Tuesday, 4 August 2015, 17:30 hrs.

Important note: You must be of legal drinking age to drink alcohol. Please be ready to provide your ID upon request.

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
Sunday, 2 August to Friday, 7 August	09:00 - 17:00
	CALIFORNIA FOYER

Awards

For each of the Affiliated Conferences / Thematic Areas of HCI International 2015 the Best paper has been selected to receive an award in the form of a plaque and a certificate in a brief ceremony during the Opening Plenary Session. The Best Poster extended abstract will also receive an award.



Conference location

Elegantly presiding over the City of Angels, The Westin Bonaventure Hotel & Suites provides the ultimate urban oasis in the heart of the business district. An international symbol that has come to represent the beauty and sophistication of the city itself, this famous Westin Los Angeles hotel is one of the most photographed destinations in the world. Frequently featured in movies and TV, this iconic LA symbol is within walking distance of Los Angeles Convention Center plus entertainment venues such as the Staples Center, Nokia Theatre, LA Live, and more.

The question in Los Angeles is never what to do, but where to begin. The county is home to many famous attractions in a relatively concentrated space. Your choices include amusement parks, architectural landmarks, art museums and galleries, beaches, parks, hiking and shopping, to name a few. After the sun goes down, you'll find there's an abundance of nightlife options, including movies (of course!), as well as live music and comedy provided by performers both legendary and yet-to-be-discovered. A region of great diversity, you'll also discover a world of culinary adventures.

Coffee Breaks			
Day / Time	10:00-10:30	10:30-11:00	15:30-16:00
Sunday, 2 August		✓	✓
Monday, 3 August		✓	✓
Tuesday, 4 August		✓	✓
Wednesday, 5 August	✓		✓
Thursday, 6 August	✓		✓
Friday, 7 August	✓		✓

Lunch	
Options for lunch are available within The Westin Bonaventure Hotel & Suites (www.thebonaventure.com/dining).	
Participants are kindly asked to make their own arrangements for lunch, during the following lunch breaks:	
Sunday, 2 August	12:30 - 14:00
Monday, 3 August	12:30 - 14:00
Tuesday, 4 August	12:30 - 14:00
Wednesday, 5 August	12:30 - 13:30
Thursday, 6 August	12:30 - 13:30
Friday, 7 August	12:30 - 13:30

General Information

Information for Presenters

Paper Presentations

Papers will be allocated approximately 15 minutes for presentation, with an additional 2-3 minutes for questions and answers following each talk. Session Chairs will introduce the speakers and will 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:

- Processor Intel Core i7 3540M
- RAM 4GB
- Hard Drive Capacity 500GB
- DVD-R/RW drive
- Wireless Network b/g/n
- Graphics Intel HD Graphics 4000
- USB 3.0 and 2.0

Software available on laptops (all in English language):

- Windows 7 Professional Service Pack 1
- Microsoft Office Professional 2010
- Microsoft .NET Framework 4.5
- Microsoft Silverlight
- Adobe Flash Player 11
- Adobe Reader XI
- Apple Quick Time
- Internet Explorer 10
- DirectX 11

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.

Wireless internet connection will be available in the presentation rooms.

Poster Presentations

The poster area will be located together with the Exhibition area at the **CALIFORNIA BALLROOM**.

The posters will be mounted on poster boards (one poster per board - with landscape orientation) with push pins which will be available on site.

Presenters can mount multiple single sheets of paper, larger posters, pictures, or any printed materials on the boards.

Authors of posters are kindly asked to make themselves available during the 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.

Posters Timetable

Display set-up	Tuesday, 5 August	07:00 - 10:00
Opening Hours	Wednesday, 5 August Thursday, 6 August Friday, 7 August	10:00 - 17:00 09:00 - 17:00 09:00 - 16:30
Display dismantle	Friday, 7 August	16:30 - 18:30

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.

Display Boards and Tables

Display boards and tables are available at the Secretariat area for:

- participants who wish to share or distribute promotional material
- announcements of the Conference Organizers

Smoking Policy

HCI International 2015 is a smoke-free Conference. There are easily accessible outdoor areas at the Convention Center where smoking is permitted.

Mobile Phone Courtesy

HCI International 2015 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

The FedEx Business Center is located on the lobby level of the hotel, providing a wide range of services. Open Monday to Friday 7:30 - 19:00. (Hours may vary based on convention calendar and show demand).

HCI International NEWS

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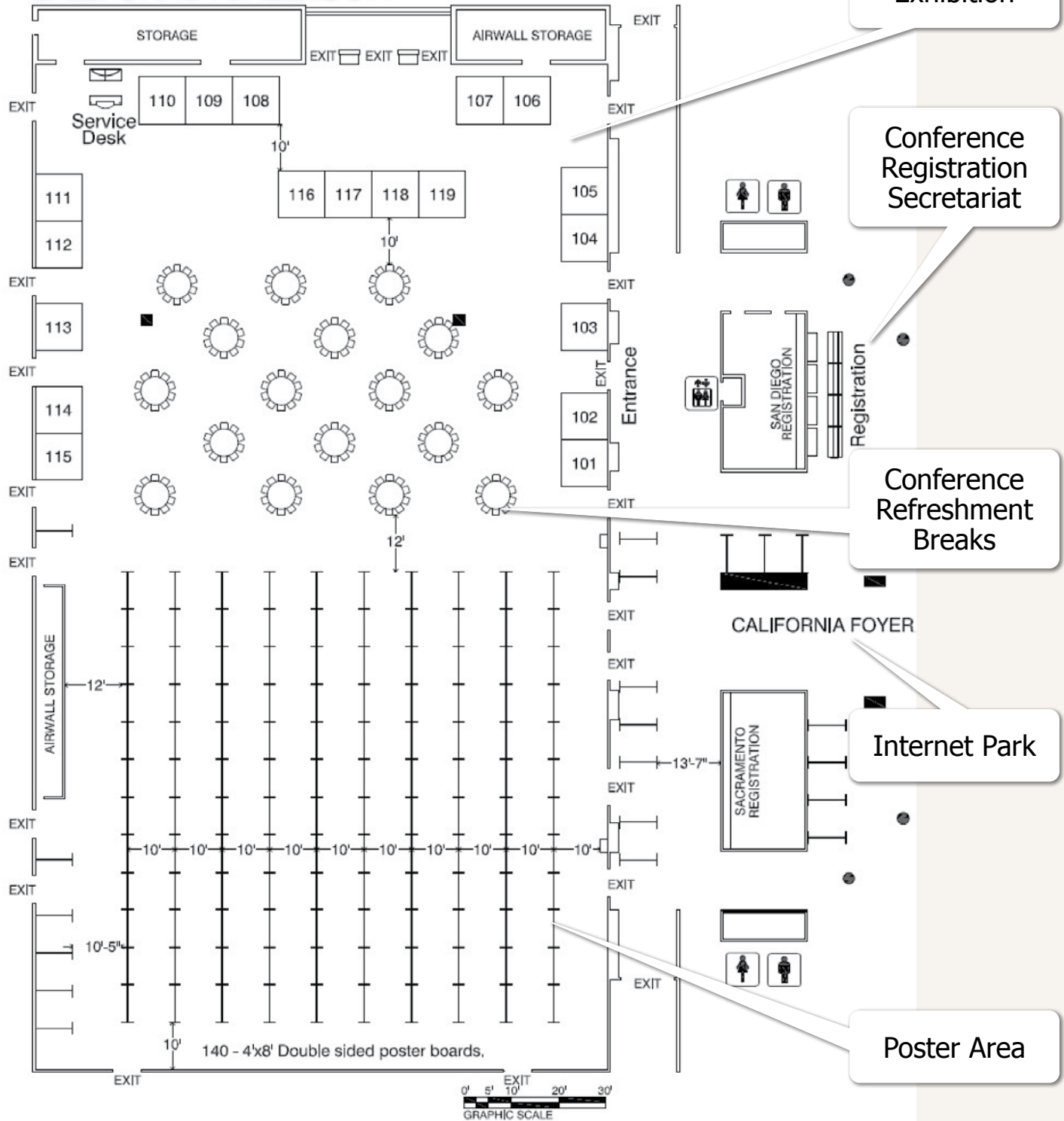
Conference Exhibition

The Exhibition of HCI International 2015 is hosted in the **CALIFORNIA BALLROOM** of The Westin Bonaventure Hotel & Suites.

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

Timetable		
Display set-up	Wednesday, 5 August	06:00 - 10:00
Opening Hours	Wednesday, 5 August	10:00 - 17:00
	Thursday, 6 August	09:00 - 17:00
	Friday, 7 August	09:00 - 16:30
Display dismantle	Friday, 7 August	16:30 - 18:30

CALIFORNIA BALLROOM



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HCI International 2015 Proceedings Volumes Price List

Volume	LNCS/LNAI/CCIS	Title - Conference Name	Editor(s)	ISBN	Net List Price
1	LNCS 9169	Human-Computer Interaction: Design and Evaluation (Part I)	M. Kurosu	978-3-319-20900-5	€ 72,00
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7	LNCS 9175	Universal Access in Human-Computer Interaction: Access to today's technologies (Part I)	M. Antona; C. Stephanidis	978-3-319-20677-6	€ 72,00
8	LNCS 9176	Universal Access in Human-Computer Interaction: Access to Interaction (Part II)	M. Antona; C. Stephanidis	978-3-319-20680-6	€ 80,00
9	LNCS 9177	Universal Access in Human-Computer Interaction: Access to learning, health and well-being (Part III)	M. Antona; C. Stephanidis	978-3-319-20683-7	€ 80,00
10	LNCS 9178	Universal Access in Human-Computer Interaction: Access to the human environment and culture (Part IV)	M. Antona; C. Stephanidis	978-3-319-20686-8	€ 72,00
11	LNCS 9179	Virtual, Augmented and Mixed Reality	R. Shumaker; S. Lackey	978-3-319-21066-7	€ 72,00
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Sunday, 2 August 2015		Room	Time	
T01	Mobile Persuasion Design: Combining Information Design and Persuasion Design in Mobile Apps to Change People's Behavior Aaron Marcus	SANTA MONICA A	09:00-12:30	Morning
T03	Crowdsourcing user & design research Vassilis Javed Khan	SANTA MONICA B	09:00-12:30	
T04	A framework of design principles for interface design Martin Maguire	SANTA MONICA C	09:00-12:30	
T05	Overview of Human Information Processing for HCI Kim-Phuong Vu, Robert Proctor	SANTA MONICA B	14:00-17:30	Afternoon
T06	Gestural Interaction: techniques, applications and interaction problems Lucio Davide Spano	SANTA MONICA C	14:00-17:30	
T07	Cross-Cultural User-Experience Design: Managing Expectations, Preferences, Needs, and Wants Aaron Marcus	SANTA MONICA A	14:00-17:30	
T08	Brain neural computer interface and confluence for medical applications Guenter Edlinger, Christoph Guger, Nicholas Anderson	SANTA MONICA D	14:00-17:30	

Monday, 3 August 2015		Room	Time	
T09	Research Methods for Eye Tracking in User Experience Design Jennifer Romano Bergstrom, Andrew Schall	SANTA MONICA B	09:00-17:30	Full-day
T10	Fundamentals of Adaptive Training System Design Robert Sottolare, Anne Sinatra	SANTA MONICA C	09:00-12:30	Morning
T11	User-Experience Design in Science-Fiction Movies and Television: The Past 100 Years of the Future Aaron Marcus	SANTA MONICA A	09:00-12:30	
T12	Achieving usable IT security Steven Furnell	SANTA MONICA D	09:00-12:30	
T13	Principles for Designing Interfaces Compatible with Human Cognition Robert Proctor, Kim-Phuong Vu	SANTA MONICA A	14:00-17:30	Afternoon
T14	How You Could Benefit from Using ISO Standards Nigel Bevan	SANTA MONICA C	14:00-17:30	
T15	Understanding Interaction for Universal Access Simeon Keates	SANTA MONICA D	14:00-17:30	

Tuesday, 4 August 2015		Room	Time	
T16	Communication Skills for HCI: Listening Effectively to Users of Assistive Technology Lil Blume	SANTA MONICA C	09:00-12:30	Morning
T17	Mobile User-Experience Trends: What Works, What's Hot Aaron Marcus	SANTA MONICA A	09:00-12:30	
T18	How to Test Software with Users Anna Wichansky	SANTA MONICA D	09:00-12:30	
T19	Standardized Usability Questionnaires James Lewis	SANTA MONICA B	09:00-12:30	
T20	Designing for Seniors Ron Baecker	SANTA MONICA A	14:00-17:30	Afternoon
T22	Augmented Cognition: Achieving Human Computer Symbiosis with 21st century Human Factors Tools Dylan Schmorrow	SANTA MONICA D	14:00-17:30	
T23	Practical Statistics for User Research James Lewis	SANTA MONICA B	14:00-17:30	

Parallel Sessions Overview

Wednesday, 5 August 2015

Morning

08:00 – 10:00 (page 20 - 25)		10:30 – 12:30 (page 26 - 31)	
Thematic Area	session code Session Title	session code Session Title	Session Title
HCI	S001 Interaction and applications of tangible and virtual reality interfaces <i>Room: AVALON</i>	S024 Socio-cultural Aspects in Monolingual and Multilingual Human-Computer Interaction <i>Room: AVALON</i>	
	S002 Usability - Still Very Important <i>Room: EMERALD BAY</i>	S025 Designing and interacting with games <i>Room: EMERALD BAY</i>	
HIMI	S003 Improvement in Learning and Educational Environments using ICT - I <i>Room: SANTA ANITA A</i>	S026 Human-centered Information Systems, Services and Applications <i>Room: SANTA ANITA B</i>	
	S004 Design and Evaluation of Human Interface <i>Room: SANTA ANITA B</i>	S027 Improvement in Learning and Educational Environments using ICT - II <i>Room: SANTA ANITA A</i>	
	S005 Tactile and Haptic Interactions <i>Room: SANTA ANITA C</i>		
EPCE	S006 Aviation Safety and Human Factors <i>Room: LOS CERRITOS</i>		
UAHCI	S007 Human-Interface Research for Information Technology: Recent Advances in 3D and 4K/8K Displays <i>Room: SAN GABRIEL A</i>	S028 Technologies supporting universal access <i>Room: SAN GABRIEL A</i>	
	S008 Universal Access to Alternate Media <i>Room: SAN GABRIEL B</i>	S029 Interaction Science, Computer Sciences and Engineering: The Interdisciplinary Nature of Universal Access <i>Room: SAN GABRIEL B</i>	
	S009 Multisensory interfaces: Designing Across Boundaries - I <i>Room: SAN GABRIEL C</i>	S030 Multisensory interfaces: Designing Across Boundaries - II <i>Room: SAN GABRIEL C</i>	
VAMR	S010 Training Trends in Virtual, Augmented, and Mixed Reality - I <i>Room: SANTA MONICA A</i>	S031 Training Trends in Virtual, Augmented, and Mixed Reality - II <i>Room: SANTA MONICA A</i>	
CCD	S011 International Ecommerce <i>Room: SANTA MONICA C</i>	S032 From Dechnology to Humarts - II <i>Room: SANTA MONICA B</i>	
	S012 From Dechnology to Humarts - I <i>Room: SANTA MONICA B</i>		
SCSM		S033 Virtual Worlds in Education, Training and Applications <i>Room: LOS CERRITOS</i>	
AC	S013 Domain general and domain specific expert visual search <i>Room: PALOS VERDES</i>	S034 HCI for BCI <i>Room: PALOS VERDES</i>	
DHM	S014 Utilizing Traditional Wisdom and Technologies in Industry - I <i>Room: SANTA BARBARA C</i>	S035 Utilizing Traditional Wisdom and Technologies in Industry - II <i>Room: SANTA BARBARA C</i>	
DUXU	S015 Women in DUXU - I <i>Room: SANTA BARBARA A</i>	S036 Speech, sound, touch and gestures in DUXU <i>Room: SANTA ANITA C</i>	
	S016 Driving user experience <i>Room: SANTA BARBARA B</i>	S037 DUXU practice and innovation <i>Room: SANTA BARBARA B</i>	
DAPI	S017 Pervasive and Civic Computing <i>Room: SANTA MONICA D</i>	S038 Women in DUXU - II <i>Room: SANTA BARBARA A</i>	
		S039 Empowerment through Making & Prototyping - Unleashing new creative processes with users <i>Room: SANTA MONICA C</i>	
HAS	S018 Mobile authentication and access control: Security and usability of smartphones, sensors and embedded systems <i>Room: SAN FERNANDO</i>	S040 Location-based applications in smart environments <i>Room: SANTA MONICA D</i>	
		S041 Considering Privacy & Security in Health, Education, Communication, and E-commerce: Approaches to Design and Policy Development <i>Room: SAN FERNANDO</i>	
HCIB	S019 User Experience, Social Media, and Enterprise Systems <i>Room: SAN BERNARDINO</i>	S042 HCI Research in Business - II <i>Room: SAN PEDRO</i>	
	S020 HCI Research in Business - I <i>Room: SAN PEDRO</i>	S043 Strategic Social Media and Usability <i>Room: SAN BERNARDINO</i>	
LCT	S021 Supporting online communities of learners <i>Room: LOS FELIZ</i>	S044 Dissecting User Experience (UX) when Users Objective is to Learn <i>Room: LOS FELIZ</i>	
ITAP	S022 New Media in the Everyday Life of Older People - I <i>Room: BEAUDRY A</i>	S045 New Media in the Everyday Life of Older People - II <i>Room: BEAUDRY A</i>	
	S023 Conditions and factors of development of innovative technologies for the elderly: methods, uses and applications <i>Room: BEAUDRY B</i>	S046 Wearable technologies and smart artifacts for older people <i>Room: BEAUDRY B</i>	

HCI Human-Computer Interaction • **HIMI** Human Interface and the Management of Information • **EPCE** Engineering Psychology and Cognitive Ergonomics • **UAHCI** Universal Access in Human-Computer Interaction • **VAMR** Virtual, Augmented and Mixed Reality • **CCD** Cross-Cultural Design • **SCSM** Social Computing and Social Media • **AC** Augmented Cognition • **DHM** Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management • **DUXU** Design, User Experience and Usability • **DAPI** Distributed, Ambient and Pervasive Interactions • **HAS** Human Aspects of Information Security, Privacy and Trust • **HCIB** HCI in Business • **LCT** Learning and Collaboration Technologies • **ITAP** Human Aspects of IT for the Aged Population

Sessions DAY 1

Wednesday, 5 August 2015

Afternoon

	13:30 – 15:30 (page 32 - 37)		16:00 – 18:00 (page 38 - 43)	
Thematic Area	session code	Session Title	session code	Session Title
HCI	S047	Assistive, mental health and wellness technologies and models <i>Room: AVALON</i>	S069	Interacting with smartwatches and wearable devices <i>Room: AVALON</i>
	S048	Gaze-based interaction <i>Room: EMERALD BAY</i>		
HIMI	S049	Development of tactile and gestural displays for navigation, communication, and robotic control <i>Room: SANTA ANITA A</i>	S070	Display and Communication of Information <i>Room: SANTA ANITA A</i>
	S050	Management of Information for Decisions <i>Room: SANTA ANITA B</i>	S071	User-oriented technologies and services <i>Room: SANTA ANITA B</i>
EPCE	S051	Cognition, emotions and driving <i>Room: LOS CERRITOS</i>	S072	New paradigms in Cognitive Ergonomics <i>Room: LOS CERRITOS</i>
UAHCI	S052	Ludic Engagement Designs for All (LEDA) <i>Room: SAN GABRIEL A</i>	S073	Inclusive Interface design for adaptive multimodal Interactions in Automotive, Aerospace and emergency communications <i>Room: SAN GABRIEL A</i>
	S053	New Models in Online Education: Equipping the Student of the Future - I <i>Room: SAN GABRIEL C</i>	S074	Usetopia, Fact or Fiction: Can Usability, Accessibility and User Experience Produce the Perfect Interface? <i>Room: SAN GABRIEL B</i>
	S054	Blended Learning Materials for Inclusive Education <i>Room: SAN GABRIEL B</i>	S075	New Models in Online Education: Equipping the Student of the Future - II <i>Room: SAN GABRIEL C</i>
VAMR	S055	Environments for Experimentation and Training: VR, Virtual Worlds, Live <i>Room: SANTA MONICA A</i>		
CCD	S056	From Dechnology to Humarts - III <i>Room: SANTA MONICA B</i>	S076	Methodology of User Study <i>Room: SANTA MONICA B</i>
			S077	From Dechnology to Humarts - IV <i>Room: SANTA MONICA C</i>
SCSM			S078	Social network analysis <i>Room: SANTA MONICA D</i>
AC	S057	Novel tools, techniques, and technologies <i>Room: PALOS VERDES</i>	S079	Measuring and quantifying cognition <i>Room: PALOS VERDES</i>
DHM	S058	Human Modeling of Traditional Arts and Technologies - I <i>Room: SANTA BARBARA C</i>	S080	Human Modeling of Traditional Arts and Technologies - II <i>Room: SANTA BARBARA C</i>
DUXU	S059	Ergonomics of human-system interaction <i>Room: SANTA BARBARA A</i>	S081	Designing wearable technologies <i>Room: SANTA BARBARA A</i>
	S060	User experience and technology affordances - I <i>Room: SANTA BARBARA B</i>	S082	Usability and Interaction Design in Software, Web-based systems, Mobile and Natural Interaction <i>Room: SAN PEDRO</i>
	S061	Experience Design for Behavior Change <i>Room: SANTA ANITA C</i>	S083	Designing and Measuring the User Experience for Diverse User Groups <i>Room: SANTA ANITA C</i>
	S062	New Approaches of User Experience Research <i>Room: BEAUDRY B</i>	S084	Engaging Technology for Sustainable Behavior <i>Room: SAN BERNARDINO</i>
	S063	Designing the Public Digital Service Experience for the Creative Industries and Science <i>Room: SAN BERNARDINO</i>	S085	User experience and technology affordances - II <i>Room: SANTA BARBARA B</i>
DAPI	S064	Interaction of Everything for Ubiquitous Virtual Reality <i>Room: SANTA MONICA D</i>		
HAS	S065	The Future of Voting: Integrating Usability and Security <i>Room: SAN FERNANDO</i>	S086	Innovative Risk Management Methodologies and Tools for Critical Information Infrastructures (CII) <i>Room: SAN FERNANDO</i>
HCIB	S066	HCI Research in Business - III <i>Room: SAN PEDRO</i>		
LCT	S067	Open and Social Environments for e-Learning and Education Assessment - I <i>Room: LOS FELIZ</i>	S087	Game-based learning <i>Room: SANTA MONICA A</i>
			S088	Open and Social Environments for e-Learning and Education Assessment - II <i>Room: LOS FELIZ</i>
ITAP	S068	Technology Innovations for Older People: Acceptance and Usage <i>Room: BEAUDRY A</i>	S089	Facilitating Independent Aging in the Communities: The Role of HCI in technologies promoting empowerment of older adults <i>Room: BEAUDRY A</i>
			S090	Design and development for and with elderly <i>Room: BEAUDRY B</i>

Parallel Sessions Overview

Thursday, 6 August 2015

Morning

	08:00 – 10:00 (page 44 - 49)	10:30 – 12:30 (page 50 - 55)
Thematic Area	session code Session Title	session code Session Title
HCI	S091 Grand HCI Challenges for the Next 10 Years <i>Room: AVALON</i>	S114 HCI in Public Transport <i>Room: AVALON</i>
	S092 Communication Enhancement <i>Room: EMERALD BAY</i>	S115 Living Among Screens <i>Room: EMERALD BAY</i>
HIMI	S093 Design Information Usage <i>Room: SANTA ANITA A</i>	S116 Haptic, flexible and bending user interfaces <i>Room: SANTA MONICA C</i>
		S117 Displaying and structuring information <i>Room: SANTA ANITA A</i>
		S118 Embodied Interaction and Communication <i>Room: SANTA ANITA B</i>
EPCE	S094 Doing More with Less <i>Room: LOS CERRITOS</i>	S119 Visualisation methods and techniques <i>Room: SANTA ANITA C</i>
		S120 Inherent Human-Machine Connection via Harmonized Interactivity <i>Room: LOS CERRITOS</i>
UAHCI	S095 eInclusion - systematic reviews of results, outcomes, impacts; perspectives? <i>Room: SAN GABRIEL A</i>	S121 Eye Tracking in User Experience Research <i>Room: SAN GABRIEL A</i>
	S096 Interaction design for universal access <i>Room: SAN GABRIEL B</i>	S122 Universal Access for Deaf and Hard of Hearing <i>Room: SAN PEDRO</i>
	S097 Ambient Technologies for Immersive Interfaces <i>Room: SAN GABRIEL C</i>	S123 Design Access in Interaction and Human Factors <i>Room: SAN GABRIEL C</i>
VAMR	S098 Human-Agent Teaming and Agent Transparency <i>Room: SANTA MONICA A</i>	S124 Designing for cognitive disabilities <i>Room: SAN BERNARDINO</i>
		S125 Human behavior in the virtual <i>Room: SANTA MONICA A</i>
CCD	S099 Culture and communication in Design <i>Room: SANTA MONICA B</i>	S126 Managing cognitive and social complexities <i>Room: SANTA MONICA B</i>
	S100 Designing the Human City and Social Innovation <i>Room: SANTA MONICA C</i>	
SCSM		S127 Social media case studies <i>Room: SANTA MONICA D</i>
AC	S101 Authoring Tools and Instructional Strategies for Adaptive Training <i>Room: PALOS VERDES</i>	S128 Instructional Principles for Adaptive Tutoring <i>Room: PALOS VERDES</i>
	S102 Augmented Cognition for Daily Living <i>Room: SANTA ANITA B</i>	
DHM	S103 Utilizing Traditional Wisdom and Technologies in Industry - III <i>Room: SANTA BARBARA A</i>	
DUXU	S104 Design, Ergonomics and Usability - I <i>Room: SANTA BARBARA C</i>	S129 Semiotics, Art, and Motivation <i>Room: SANTA BARBARA A</i>
	S105 Big Data, Complex Systems and DUXU <i>Room: SANTA BARBARA B</i>	S130 Telemedicine and e-health: an interdisciplinary approach <i>Room: SANTA BARBARA B</i>
	S106 Women in DUXU - III <i>Room: SANTA ANITA C</i>	S131 Design, Ergonomics and Usability - II <i>Room: SANTA BARBARA C</i>
DAPI	S107 Prototyping Ubiquitous Computing Environments <i>Room: SANTA MONICA D</i>	
HAS	S108 Operational Trustworthiness Enabling Technologies <i>Room: SAN FERNANDO</i>	S132 Human Aspects of Information Security, Privacy and Trust for Smart Buildings <i>Room: SAN FERNANDO</i>
HCIB	S109 HCI in Digital Social and Business Environments <i>Room: SAN PEDRO</i>	S133 PANEL: Creating Greater Synergy between HCI Academia and Practice <i>Room: SAN GABRIEL B</i>
	S110 Human-Computer Interface and its Applications in Analytics <i>Room: SAN BERNARDINO</i>	
LCT	S111 Learning science and programming <i>Room: LOS FELIZ</i>	S134 Advanced interaction systems in technology enhanced learning and training <i>Room: LOS FELIZ</i>
ITAP	S112 Aging and Technology Acceptance - I <i>Room: BEAUDRY A</i>	S135 Assistive Technology for the Aging Population <i>Room: BEAUDRY B</i>
	S113 Emerging IT for Aging Drivers: Boon or Bane <i>Room: BEAUDRY B</i>	S136 Aging and Technology Acceptance - II <i>Room: BEAUDRY A</i>

HCI Human-Computer Interaction • **HIMI** Human Interface and the Management of Information • **EPCE** Engineering Psychology and Cognitive Ergonomics • **UAHCI** Universal Access in Human-Computer Interaction • **VAMR** Virtual, Augmented and Mixed Reality • **CCD** Cross-Cultural Design • **SCSM** Social Computing and Social Media • **AC** Augmented Cognition • **DHM** Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management • **DUXU** Design, User Experience and Usability • **DAPI** Distributed, Ambient and Pervasive Interactions • **HAS** Human Aspects of Information Security, Privacy and Trust • **HCIB** HCI in Business • **LCT** Learning and Collaboration Technologies • **ITAP** Human Aspects of IT for the Aged Population

Sessions DAY 2

Thursday, 6 August 2015

Afternoon

	13:30 – 15:30 (page 56 - 61)	16:00 – 18:00 (page 62 - 67)
Thematic Area	session code Session Title	session code Session Title
HCI	S137 Safety and Human Factors <i>Room: AVALON</i> S138 Input methods and techniques <i>Room: EMERALD BAY</i>	S159 Ergonomics of Visual Interfaces <i>Room: AVALON</i>
HIMI	S139 Digital Museum <i>Room: SANTA ANITA A</i> S140 Service Engineering and Application <i>Room: SANTA ANITA B</i>	S160 Design, Web and Culture <i>Room: SANTA ANITA A</i> S161 Virtual Reality and cross modality <i>Room: SANTA ANITA B</i>
EPCE	S141 Cognitive workload and performance <i>Room: LOS CERRITOS</i>	S162 Vision and cognition <i>Room: LOS CERRITOS</i>
UAHCI	S142 Next Generation Accessible Voting: Interactions and Technologies <i>Room: SAN GABRIEL A</i> S143 HCI-based Affective/Blended/Inclusive-Technologies: Trends, Models and Applications <i>Room: SAN GABRIEL B</i> S144 Design Access in Human Communication and Interaction <i>Room: SAN GABRIEL C</i>	S163 Quantified Self & Personal Informatics <i>Room: SAN GABRIEL A</i> S164 Human-Interface Research for Information Technology: Recent Advances in 3D and Head-mounted display (HMD) <i>Room: SAN GABRIEL B</i> S165 Engineering for Assistive Technology and Accessibility based on Human <i>Room: SAN GABRIEL C</i>
VAMR	S145 VAMR in design, assembly and maintenance <i>Room: SANTA MONICA A</i>	S166 PANEL: Working the Modes: Understanding the Value of Multiple Modalities of Technologies for Learning and Training Success <i>Room: SANTA MONICA A</i>
CCD	S146 Interactive Technology Design <i>Room: SANTA MONICA B</i>	S167 Living in the Smart World <i>Room: SANTA MONICA B</i>
AC	S147 Applying science to complex operational environments: Methodological case studies from the Transportation Security Administration's human factors group <i>Room: SAN BERNARDINO</i> S148 Operational Neuroscience - I <i>Room: PALOS VERDES</i>	S168 Operational Neuroscience - II <i>Room: PALOS VERDES</i> S169 Cognitive Performance in Human Systems Integration in Aviation <i>Room: BEAUDRY B</i>
DHM	S149 Enhancing "human machine" behavior and performance: from human factors and ergonomic engineering to integrative bioengineering <i>Room: SANTA ANITA C</i> S150 Human Modeling of Traditional Arts and Technologies - III <i>Room: BEAUDRY A</i>	S170 Designing for assisted living to support the health and safety of aging seniors <i>Room: SANTA ANITA C</i> S171 Human Modeling of Traditional Arts and Technologies - IV <i>Room: BEAUDRY A</i>
DUXU	S151 Practicing what we Preach: Usability and user experience case studies <i>Room: SANTA BARBARA A</i> S152 Information Design and User Experience <i>Room: SANTA BARBARA B</i> S153 Design, Ergonomics and Usability - III <i>Room: SANTA BARBARA C</i>	S172 Seeing the Visible and the Invisible <i>Room: SANTA BARBARA A</i> S173 Designing and Evaluating User Experience (UX) in Interactive Systems <i>Room: SANTA BARBARA B</i> S174 Interactions with Digital Art and Design <i>Room: SANTA BARBARA C</i>
DAPI	S154 Contextual Interaction Design <i>Room: SANTA MONICA D</i>	S175 Architecture and art in pervasive environments <i>Room: SANTA MONICA D</i>
HAS	S155 Security, privacy and trust in human-computer interactions <i>Room: SAN FERNANDO</i>	S176 Human Factors of Authentication <i>Room: SAN FERNANDO</i>
HCIB	S156 Optimising interactions for commercial success <i>Room: SAN PEDRO</i>	S177 Social media for business <i>Room: SAN PEDRO</i> S178 HCI in electronic, mobile and ubiquitous commerce <i>Room: SAN BERNARDINO</i>
LCT	S157 Digital literacy <i>Room: LOS FELIZ</i>	S179 Adaptive and personalised learning <i>Room: LOS FELIZ</i>
ITAP	S158 Making ICT use, personalization, and security instant and easier for older users <i>Room: BEAUDRY B</i>	S180 Technology Interventions for Older Adults <i>Room: SANTA MONICA C</i>

Parallel Sessions Overview

Friday, 7 August 2015

Morning

	08:00 – 10:00 (page 68 - 72)		10:30 – 12:30 (page 73 - 77)	
Thematic Area	session code	Session Title	session code	Session Title
HCI	S181	Human Aspects of Enterprise Information Systems <i>Room: SANTA BARBARA A</i>	S200	Distributed, multiplatform, multidevice and composite interfaces <i>Room: SANTA BARBARA A</i>
	S182	Civic Computing <i>Room: SANTA BARBARA B</i>	S201	HCI Design methods and tools <i>Room: SANTA BARBARA B</i>
	S183	Human-Robot Interaction <i>Room: SANTA BARBARA C</i>	S202	Mobile interaction <i>Room: SANTA BARBARA C</i>
	S184	Participatory and collaborative design <i>Room: SAN GABRIEL C</i>		
HIMI	S185	Service, Design, Interaction <i>Room: SANTA ANITA A</i>	S203	Human Factors in Design and Evaluation of Human-Computer Interaction <i>Room: SANTA ANITA A</i>
			S204	Interacting with text and knowledge <i>Room: SANTA ANITA B</i>
EPCE	S186	Design, Interaction and Cognition <i>Room: LOS CERRITOS</i>		
UAHCI	S187	Sensors and Mobile Applications for Human-Computer Interaction <i>Room: SAN GABRIEL A</i>	S205	Haptics for Assistive, Rehabilitative and Healthcare Technologies <i>Room: SAN GABRIEL A</i>
	S188	Ergonomics in Architecture - I <i>Room: SAN GABRIEL B</i>	S206	Ergonomics in Architecture - II <i>Room: SAN GABRIEL B</i>
			S207	Interacting with Culture: a way to enhance the experience with Cultural Heritage <i>Room: SAN GABRIEL C</i>
VAMR	S189	3D Virtual Environment <i>Room: SANTA MONICA A</i>	S208	Developing virtual environments <i>Room: SANTA MONICA A</i>
CCD	S190	Research on User Experience Oriented Service Design - I <i>Room: BEAUDRY A</i>	S209	Sustainability Oriented User Experience Design <i>Room: BEAUDRY B</i>
			S210	Research on User Experience Oriented Service Design - II <i>Room: BEAUDRY A</i>
SCSM			S211	Designing Social Media <i>Room: LOS CERRITOS</i>
AC	S191	Neuro-cognitive mechanisms of learning optimization <i>Room: SANTA ANITA B</i>	S212	Implications of Operational Neuroscience and Neuroergonomics on Military Selection, Classification, and Training <i>Room: LOS FELIZ</i>
	S192	Adaptive Automation and Human Multi-Agent Control <i>Room: SANTA ANITA C</i>		
DHM	S193	Human Modeling for Quality Care - I <i>Room: PALOS VERDES</i>	S213	Medical decision-making and applications <i>Room: SANTA ANITA C</i>
	S194	Ergonomic Assessments using Advanced Virtual Prototyping Technique <i>Room: SAN FERNANDO</i>	S214	Human Modeling for Quality Care - II <i>Room: PALOS VERDES</i>
DUXU			S215	User experience and usability evaluation <i>Room: SAN PEDRO</i>
			S216	Mobile DUXU <i>Room: SAN BERNARDINO</i>
DAPI	S195	Modeling Humor in Smart Environments <i>Room: SANTA MONICA D</i>	S217	Smart materials, objects and furniture <i>Room: SANTA MONICA D</i>
HAS			S218	Malicious Insider Threat <i>Room: SAN FERNANDO</i>
HCIB	S196	Mining on Big Data for Decision Support <i>Room: SAN PEDRO</i>		
	S197	HCI in pervasive, social and mobile computing <i>Room: SAN BERNARDINO</i>		
LCT	S198	Impact of Social Networks on Education Teaching / Learning Methodologies <i>Room: LOS FELIZ</i>		
ITAP	S199	Human factors in an ageing society <i>Room: BEAUDRY B</i>		

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Sessions DAY 3

Friday, 7 August 2015

Afternoon

		13:30 – 15:30 (page 78 - 82)	16:00 – 18:00 (page 83 - 87)	
Thematic Area	session code	Session Title	session code Session Title	
HCI	S219	Psychological and physiological issues in HCI <i>Room: SANTA BARBARA A</i>	S238	Gesture and motion based interaction <i>Room: SANTA BARBARA A</i>
	S220	HCI: Theory and practice <i>Room: SANTA BARBARA B</i>	S239	Emotions in HCI <i>Room: SANTA BARBARA B</i>
	S221	Interacting in complex environments <i>Room: SANTA BARBARA C</i>	S240	Web Usability and Quality <i>Room: SANTA BARBARA C</i>
			S241	HCI for health and well-being <i>Room: SANTA ANITA B</i>
			S242	Communication, collaboration and social aspects <i>Room: SANTA ANITA C</i>
HIMI	S222	Information and knowledge in transport <i>Room: SANTA ANITA A</i>	S243	User Profiling and Personalisation <i>Room: SANTA ANITA A</i>
UAHCI	S223	Human, Computer & Environment <i>Room: SAN GABRIEL A</i>	S244	Novel technologies for speech, language, attention and child development <i>Room: SAN GABRIEL A</i>
	S224	Universal access to mobile interaction <i>Room: SAN GABRIEL B</i>	S245	Novel interaction techniques for motor disables users <i>Room: SAN GABRIEL B</i>
	S225	Interaction for deaf users <i>Room: SAN GABRIEL C</i>	S246	Non visual interaction and navigation <i>Room: SAN GABRIEL C</i>
SCSM			S247	Individual and Group Behaviour in Social Media <i>Room: LOS FELIZ</i>
VAMR	S226	Design and evaluation of VAMR <i>Room: SANTA MONICA A</i>		
CCD	S227	Case studies in cross-cultural design <i>Room: BEAUDRY A</i>		
AC	S228	Neuromethods, Training, and Education <i>Room: SANTA ANITA B</i>		
DHM	S229	Safety, accident prevention and emergency <i>Room: SANTA ANITA C</i>	S248	Advanced Applications of Intelligent Systems <i>Room: PALOS VERDES</i>
	S230	Human Modeling for Quality Care - III <i>Room: PALOS VERDES</i>	S249	Applications of anthropometry <i>Room: SAN PEDRO</i>
DUXU	S231	Beauty Technology: Wearables on Skin <i>Room: SAN PEDRO</i>	S250	Users' involvement in DUXU <i>Room: BEAUDRY A</i>
	S232	User experience design theory and methods <i>Room: SAN BERNARDINO</i>		
DAPI	S233	User experience in intelligent environments <i>Room: SANTA MONICA D</i>	S251	Developing intelligent environments <i>Room: LOS CERRITOS</i>
HAS	S234	Usable Authentication <i>Room: SAN FERNANDO</i>	S252	Ethics, Privacy and Security in Social Media <i>Room: SAN FERNANDO</i>
HCIB	S235	Industrial Applications of HCI: HCI in the "Real World" <i>Room: LOS CERRITOS</i>	S253	HCI Research: Synergies Between Industry and Academia <i>Room: SAN BERNARDINO</i>
LCT	S236	New approaches to language learning <i>Room: LOS FELIZ</i>		
ITAP	S237	Elderly in E-Commerce and Virtual Community <i>Room: BEAUDRY B</i>	S254	Interaction and control in Ambient Assisted Living Environment <i>Room: BEAUDRY B</i>



HCI S001

Interaction and applications of tangible and virtual reality interfaces
 Chair(s): Simone Borsci, Glyn Lawson, *United Kingdom*.

Room: **AVALON**

Relationship between Trust and Usability in Virtual Environments: an Ongoing Study
 Davide Salanitri, Chrisminder Hare, Simone Borsci, Glyn Lawson, Sarah Sharples, Brian Waterfield, *United Kingdom*.

VR Processes in the Automotive Industry
 Glyn Lawson, Davide Salanitri, Brian Waterfield, *United Kingdom*.

Early Prototype Assessment of a New Virtual System for Training Procedural Skills of Automotive Service Operators: LARTE Tool
 Simone Borsci, Glyn Lawson, Mark Burgess, Bhavna Jha, *United Kingdom*.

Designing Touchless Gestural Interactions for Public Displays In-the-Wild
 Vito Gentile, *Italy*; Alessio Malizia, *United Kingdom*; Salvatore Sorce, Antonio Gentile, *Italy*.

Designed to Thrill: Exploring the Effects of Multimodal Feedback on Virtual World Immersion
 Dimitrios Darzentas, Michael Brown, *United Kingdom*; Noirin Curran, *Ireland*.

Virtual Dressing Room- Can it be More Fun? Designing Social Interaction through Ludic Engagement within Interactive Environments
 Yi Gao, Eva Petersson Brooks, Michael Boelstoft Holte, *Denmark*.

S002

Usability - Still Very Important
 Chair(s): Masaaki Kurosu, *Japan*.

Room: **EMERALD BAY**

ISO 9241-11 revised: What have we learnt about usability since 1998?
 Nigel Bevan, *United Kingdom*; Jim A Carter, *Canada*; Susan Harker, *United Kingdom*.

Analysis of Factors Influencing the Satisfaction of the Usability Evaluations in Smartphone Applications
 Ayako Hashizume, Shuwa Kido, *Japan*.

Usability, Quality in Use and the Model of Quality Characteristics
 Masaaki Kurosu, *Japan*.

Communication of Design Decisions and Usability Issues: a Protocol Based on Personas and Nielsen's Heuristics
 Joelma Choma, Luciana A. M. Zaina, Daniela Beraldo, *Brazil*.

Incorporating Marketing Strategies to Improve Usability Assurance in User-Centered Design Processes
 Iunia-Cristina Borza, José Antonio Macías, *Spain*.

A User Interface Usability Evaluation of the Electronic Ballot Box used in the 2014 Brazilian Election
 Mauro C Pichiliani, Talita C.P. Britto, *Brazil*.

HIMI S003

Improvement in Learning and Educational Environments using ICT - I
 Chair(s): Takahito Tomoto, Takako Akakura, *Japan*.

Room: **SANTA ANITA A**

Proposal of an instructional design support system based on consensus among academic staff and students
 Shuya Nakamura, Takahito Tomoto, Takako Akakura, *Japan*.

Development of a Seminar Management System
 Yusuke Kometani, Keizo Nagaoka, *Japan*.

A Ubiquitous Lecture Archive Learning Platform with Note-centered Approach
 Shinobu Hasegawa, Jiangning Dai, *Japan*.

Disaster Recovery Framework for e-Learning Environment using Private Cloud Collaboration and Emergency Alerts
 Satoshi Togawa, Kazuhide Kanenishi, *Japan*.

Possible Strategies for Facilitating the Exchange of Tacit Knowledge in a Team of Creative Professionals
 Søren Frimodt-Møller, Nanna Borum, Eva Petersson Brooks, Yi Gao, *Denmark*.

S004

Design and Evaluation of Human Interface
 Chair(s): Masaru Noda, *Japan*.

Room: **SANTA ANITA B**

Proposal of New Lighting which Combined Functionality of Street Light and Outdoor Light
 Takeo Ainoya, Keiko Kasamatsu, Akio Tomita, *Japan*.

A method for generation and check of alarm configurations using cause-effect matrices for plant alarm system design
 Takashi Hamaguchi, Bunta Mondori, Kazuhiro Takeda, Naoki Kimura, Masaru Noda, *Japan*.

Education Method for Safe Bicycle Riding to Evaluate Actual Cycling Behaviors When Entering an Intersection
 Hiroaki Kosaka, Masaru Noda, *Japan*.

Modelling of a business process for alarm management lifecycle in chemical industries
 Kazuhiro Takeda, Takashi Hamaguchi, Naoki Kimura, Masaru Noda, *Japan*.

Dot Matrix Analysis of Plant Operation Data for Identifying Sequential Alarms Triggered by Single Root Cause
 ZheXing Wang, Masaru Noda, *Japan*.

Ubiquitous Healthcare Systems: Improving the Adherence Level within Diabetic Medication Using Cloud-based Reminder System
 Mohammed H.R. Kalkattawi, Tatsuo Nakajima, *Japan*.

HIMI S005

Tactile and Haptic Interactions

Chair(s): Daiji Kobayashi, Kentaro Kotani, *Japan*.

Room: **SANTA ANITA C**

Study of Haptics and Tactile Sense of the Direction of Movement

Sakae Yamamoto, Yukiko Yokomizo, Daiji Kobayashi, *Japan*.

Designing Memorable Tactile Patterns

Daiji Kobayashi, Hiroyasu Mitani, *Japan*.

Induction of a Relaxed State Using a Vibration Stimulus Based on the Respiratory Cycle

Naoto Iwamoto, Hiroshi Hagiwara, *Japan*.

Changes in Heart Rate Variability by using Tactile Thermal Interface Device

Kentaro Kotani, Shigeyoshi Iizuka, Takafumi Asao, Satoshi Suzuki, *Japan*.

EPCE S006

Aviation Safety and Human Factors

Chair(s): Wen-Chin Li, *United Kingdom*; Ruishan Sun, *P.R. China*.

Room: **LOS CERRITOS**

Comfort Evaluation Method of Commercial Pilot Posture

Xiaoyan Zhang, Hongjun Xue, Xiaoheng Su, Yunteng Hou, *P.R. China*.

Visualization and Analysis of Controllers' Working Processes in En Route Air Traffic Control

Daisuke Karikawa, Hisae Aoyama, *Japan*.

Research on Error Proofing Design of Boeing and Airbus Cockpit from Pilots Survey

Ruishan Sun, Kang Zhao, Xin Zhang, *P.R. China*.

The Efficiency of New Audio Alerts in the COOPANS Eurocat System

Peter Kearney, *Ireland*; Wen-Chin Li, *United Kingdom*.

Interface Design and Pilot Attention Distribution Whilst Pursuing a Dynamic Target

Wen-Chin Li, *United Kingdom*; Chung-San Yu, *Taiwan*; Graham Braithwaite, Matthew Greaves, *United Kingdom*.

Relational Complexity Network and Air Traffic Controllers' Workload and Performance

Jingyu Zhang, Feng Du, *P.R. China*.

Flight Safety Margin Theory - A Theory for the Engineering Analysis of Flight Safety

Hung-Sying Jing, Chia-Sheng Sheng, Yu-Feng Lin, *Taiwan*.

Engineering Psychology and Cognitive Ergonomics

UAHCI S007

Human-Interface Research for Information Technology: Recent Advances in 3D and 4K/8K Displays

Chair(s): Hiromu Ishio, Masaru Miyao, *Japan*.

Room: **SAN GABRIEL A**

Effect of Background Viewing on Equilibrium Systems

Hiroki Takada, Yuki Mori, Toshitake Miyakoshi, *Japan*.

Difference in Readability of Mobile Devices by Age Groups

Kohei Iwata, Yuki Ishii, Tatsuya Koizuka, Takehito Kojima, *Japan*; Paul Lege, *United States*; Masaru Miyao, *Japan*.

Comparison of Age Groups on the Readability of an E-reader with a Built-in Light

Yuki Ishii, Tatsuya Koizuka, Kohei Iwata, Takehito Kojima, *Japan*; Paul Lege, *United States*; Masaru Miyao, *Japan*.

Measurement of Lens Accommodation during Viewing of DFD Images

Tatsuya Yamakawa, Hideaki Takada, Muneakazu Date, Takehito Kojima, Ichizo Morita, Yuma Honda, Masaru Miyao, *Japan*.

Transparent Touch – Interacting with a Multi-layered Touch-sensitive Display System

Andreas Kratky, *United States*.

Touchless Text Entry for All: Initial Design Considerations and Prototypes

Alexandros Mourouzis, Giorgos Arfaras, Vassilis Kilintzis, Ioanna Chouvarda, Nicos Maglaveras, *Greece*.

Universal Access in Human-Computer Interaction

S008

continues...

Universal Access to Alternate Media

Chair(s): Lars Ballieu Christensen, *Denmark*.

Room: **SAN GABRIEL B**

Delivering User-Centered Content on an Inclusive Mobile Platform: How to Produce It and Use It!

Valerie C. Haven, *United States*.

Universal Access to Media and the California Community Colleges Online Education Initiative

Michael James Jayme Johnson, *United States*.

Universal Access to Alternate Media

Lars Ballieu Christensen, Tanja Stevns, *Denmark*.

Reading Comprehension Issues and Individuals with Visual Impairments: the effects of using 8-dot and 6-dot braille code through a braille display

Vassilios Argyropoulos, Aineias Martos, Georgios Sideridis, Georgios Kouroupetroglou, Magda Nikolaraizi, Maria Papazafiri, *Greece*.

WEDNESDAY 8:00 - 10:00

UAHCI S009

Multisensory interfaces: Designing Across Boundaries - I

Chair(s): Luisa Paraguai, Carlos A. Barbosa, *Brazil*.

Room: **SAN GABRIEL C**

Once upon a Tablet: A School Toy in the Making
Isabel Cristina G. Froes, *Denmark*.

Entangled Sensorium: Subtle Apparatuses for Nonlocal Affectiveness
Clarissa Ribeiro, *Brazil*.

Senses in Space: Mapping the Universe to the Human Body
Julieta C. Aguilera, *Chile*.

Fashion Design for Health: a Multidisciplinary Approach
Mariana Rachel Roncoletta, *Brazil*.

BioCyberUrban parQ: Brasilia's Smart National Park as an Extension of our Senses
Suzete Venturelli, Francisco de Paula Barretto, *Brazil*.

VAMR S010

Virtual, Augmented and Mixed Reality

Training Trends in Virtual, Augmented, and Mixed Reality - I

Chair(s): Julie N Salcedo, *United States*.

Room: **SANTA MONICA A**

Training Effectiveness Evaluation: Call for Fire Trainer – Augmented Virtuality (CFFT-AV)

Gino Fragomeni, Stephanie J. Lackey, Julie N Salcedo, Roberto K. Champney, Stephen Serge, *United States*.

Squad Overmatch: Using Virtual Technology to Enhance Live Training Environments

Patrick M. Ogden, Terry N. Wollert, Paul Butler, Julie N Salcedo, *United States*.

Augmenting Reality in Sensor Based Training Games

Peter A. Smith, *United States*.

Augmented Reality Training of Military Tasks: Reactions from Subject Matter Experts

Roberto K. Champney, Stephanie J. Lackey, Kay Stanney, Stephanie Quinn, *United States*.

GlassClass: Exploring the Design, Implementation, and Acceptance of Google Glass in the Classroom

David A. Berque, James T. Newman, *United States*.

CCD S011

Cross-Cultural Design

International E-commerce

Chair(s): Paul L. Fu, *United States*.

Room: **SANTA MONICA C**

Market Segmentation: Selecting the Best Approach

Seema Swamy, *United States*.

E-Commerce Purchase Intention in Emerging Markets: The Influence of Gender and Culture

Dimitrios Rigas, Nazish Riaz, *United Kingdom*.

From Customer Satisfaction to Customer Experience: Online Customer Satisfaction Practice in International E-commerce

Yanyang Liuqu, Xinheng Fan, *P.R. China*; Paul L. Fu, *United States*.

S012

From Dechnology to Humarts - I

Chair(s): Rungtai Lin, *Taiwan*; John G. Kreifeldt, *United States*; Po-Hsien Lin, *Taiwan*.

Room: **SANTA MONICA B**

From Dechnology to Humart - A Case Study of Taiwan Design Development

Rungtai Lin, *Taiwan*; John G. Kreifeldt, *United States*; Pei-Hua Hung, Jun-Liang Chen, *Taiwan*.

Stakeholder Engagement: Applying Dechnology in a Technology-oriented Organization

Chih-Shiang (Mike) Wu, William Huang, Pei-Lin Chen, Tung-Jung Sung, *Taiwan*.

An Innovation Design for Hazardous Chemical/ Gases Disaster Detection and Analysis Equipment by Using Cross-Cultural User Scenarios and Service Design

Sheng-Ming Wang, Cheih Ju Huang, Lun-Chang Chou, Pei-Lin Chen, *Taiwan*.

From Design to Technology - A Case Study of Children's Perception toward Dechnology Products

Pei-Hua Hung, Chi-Ying Hung, Hsi-Yen Lin, Wen-Zhong Su, *Taiwan*.

From Technology to Design - A Case Study of Netizen's Perception toward Dechnology Products

Hsi-Yen Lin, Wen-Zhong Su, Pei-Hua Hung, Chi-Ying Hung, *Taiwan*.



AC S013

Augmented Cognition

Domain general and domain specific expert visual search
Chair(s): Ann Speed, *United States.*

Room: **PALOS VERDES**

Visual Search in Operational Environments - Balancing Operational Constraints with Experimental Control
Ann Speed, *United States.*

Ethnographic Methods for Experimental Design: Case Studies in Visual Search
Laura McNamara, Kerstan Cole, Michael J. Haass, Laura E. Matzen, J. Daniel Morrow, Susan M. Stevens-Adams, Stephanie McMichael, *United States.*

Exploratory Analysis of Visual Search Data
David J. Stracuzzi, Ann Speed, Austin Silva, Michael J. Haass, Derek Trumbo, *United States.*

Effects of Professional Visual Search Experience on Domain-General and Domain-Specific Visual Cognition
Laura E. Matzen, Michael J. Haass, Laura McNamara, Susan M. Stevens-Adams, Stephanie McMichael, *United States.*

Methodology for Knowledge Elicitation in Visual Abductive Reasoning Tasks
Michael J. Haass, Laura E. Matzen, Susan M. Stevens-Adams, Allen R. Roach, *United States.*

Measuring Expert and Novice Performance within Computer Security Incident Response Teams
Austin Silva, Glory Emmanuel, Jonathan T. McClain, Laura E. Matzen, Chris Forsythe, *United States.*

Determining the Optimal Time on X-ray Analysis for Transportation Security Officers
Ann Speed, Austin Silva, Derek Trumbo, David J. Stracuzzi, Christina Warrender, Michael Trumbo, Kristin Divis, *United States.*

DHM S014

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

Utilizing Traditional Wisdom and Technologies in Industry - I
Chair(s): Hiroyuki Hamada, *Japan.*

Room: **SANTA BARBARA C**

EMG Activity Analysis of Expert Skills on Handheld Grinding Work for Metallographic Sample
Takuya Sugimoto, Hisanori Yuminaga, Hiroyuki Nishimoto, Akihiko Goto, *Japan.*

Difference in Polishing Process of FRP Between Expert and Non-Expert
Takuya Sugimoto, Daiki Ichikawa, Hiroyuki Nishimoto, Yoshiaki Yamato, Akihiko Goto, *Japan.*

Process Analysis of the Hand Lay-Up Method Using CFRP Prepreg Sheets
Toshikazu Uchida, Hiroyuki Hamada, Koji Kuroda, Atsushi Endo, Masakazu Migaki, Junpei Ochiai, Tadashi Uozumi, Akihiko Goto, *Japan.*

Process Analysis of Expert and Non-Expert Engineers in Quartz Glass Joint Process
Masamichi Suda, Toru Takahashi, Akio Hattori, *Japan*; Yuqiu Yang, *P.R. China*; Akihiko Goto, Hiroyuki Hamada, *Japan.*

An Investigation on Skillful Gel-Coat Techniques and its Application to Beginner's Application
Erika Suzuki, Tetsuo Kikuchi, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan.*

Effects of Quantified Instructional Tool on Spray-up Fabrication Method
Tetsuo Kikuchi, Erika Suzuki, *Japan*; Yiyi Zhang, *P.R. China*; Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan.*

Comparison of Eye Movement during the Polishing Process of Metallographic Sample between Expert and Nonexpert
Takuya Sugimoto, uka Takai, Hiroyuki Nishimoto, Akihiko Goto, *Japan.*

DUXU S015

Design, User Experience, and Usability

Women in DUXU - I
Chair(s): Javed Anjum Sheikh, *Pakistan.*

Room: **SANTA BARBARA A**

Experiencing Early User Interfaces
Martha E. Crosby, *United States.*

Incommensurable Writings - Examining the Status of Gender Difference within HCI Coding Practices
Michael Heidt, Kalja Kanellopoulos, Arne Berger, Paul Rosenthal, *Germany.*

Re/framing Virtual Conversational Partners: A Feminist Critique and Tentative Move Towards a New Design Paradigm
Sheryl Brahnham, Margaret Weaver, *United States.*

Introducing Computer Science to Brazilian Girls in Elementary School through HCI Concepts
Marilia Abrahão Amaral, Silvia Amelia Bim, Clodis Boscaroli, Cristiano Maciel, *Brazil.*

Designing with Young Children: Lessons Learned from a Co-Creation of a Technology-Enhanced Playful Learning Environment
Nanna Borum, Eva Petersson Brooks, Anthony Lewis Brooks, *Denmark.*

Evolutionary Wearables
Patricia Flanagan, *Hong Kong.*

S016

Driving user experience
Chair(s): Wanda Eugene, *United States.*

Room: **SANTA BARBARA B**

Going on a Road-Trip with my Electric Car: Acceptance Criteria for Long-Distance-Use of Electric Vehicles
Julian Halbey, Sylvia Kowalewski, Martina Ziefle, *Germany.*

Exploring User Experience in the Wild: Facets of the Modern Car
Dimitrios Gkouskos, Ingrid Pettersson, Marianne Karlsson, Fang Chen, *Sweden.*

Designing for the Naturalistic Driving Experience
Wanda Eugene, Jerone Dunbar, Alison Nolan, Juan E. Gilbert, Renesha Hendrix, *United States.*

What Are The Expectations of Users of an Adaptive Recommendation Service Which Aims to Reduce Driver Distraction?
Nadine Walter, Benjamin Kaplan, Carmen Wettemann, Tobias Altmueller, Klaus Bengler, *Germany.*

A Study on a Split-View Navigation System
Jong Sung Lee, Heewon Lee, Sung Woo Kim, *Korea.*

Cross Cultural Comparison of Users' Barge-in with the In-vehicle Speech System
Pei Wang, *P.R. China*; Ute Winter, *Israel*; Timothy Grost, *United States.*

Skeuomorphism and Flat Design: Evaluating Users' Emotion Experience in Car Navigation Interface Design
Lei Wu, Tian Lei, Juan Li, Bin Li, *P.R. China.*

WEDNESDAY 8:00 - 10:00



Distributed, Ambient and Pervasive Interactions

DAPI S017

Pervasive and Civic Computing
Chair(s): Shin'ichi Konomi, *Japan*.

Room: **SANTA MONICA D**

A Design Framework for Navigating Human Behavior through Gameful Digital Rhetoric
Mizuki Sakamoto, Tatsuo Nakajima, *Japan*.

Auditory Browsing Interface of Ambient and Parallel Sound Expression for Supporting One-to-Many Communication
Tomoko Yonezawa, *Japan*.

Indirect Monitoring of Cared Person by Onomatopoeic Text of Environmental Sound and User's Physical State
Yusuke Naka, Naoto Yoshida, Tomoko Yonezawa, *Japan*.

Spending Precious Travel Time more Wisely: a Service Model that Provides Instant Travel Assistance using Input from Locals
Kenro Aihara, Susumu Kono, Shizuhiro Sugino, *Japan*.

Monitoring Wildlife in Contaminated Environments via the Carrier Pigeon-like Sensing System
Hiroki Kobayashi, Hiromi Kudo, Kaoru Sezaki, *Japan*.

Activity Recipe: Spreading Cooperative Outdoor Activities for Local Communities Using Contextual Reminders
Tomoyo Sasao, Shin'ichi Konomi, Keisuke Kuribayashi, *Japan*.

Personalized Energy Reduction Cyber-physical System (PERCS): A Gamified End-User Platform for Energy Efficiency and Demand Response
Nicole D. Sintov, Michael D. Orosz, P. Wesley Schultz, *United States*.

Human Aspects of Information Security, Privacy and Trust

HAS S018

Mobile authentication and access control: Security and usability of smartphones, sensors and embedded systems
Chair(s): Theo Tryfonas, *United Kingdom*.

Room: **SAN FERNANDO**

Real-time Monitoring of Privacy Abuses and Intrusion Detection in Android System
Shancang Li, Junhua Chen, Theodoros Spyridopoulos, Panagiotis Andriotis, Robert Ludwiniak, Gordon Russell, *United Kingdom*.

Messaging Activity Reconstruction with Sentiment Polarity Identification
Panagiotis Andriotis, George Oikonomou, *United Kingdom*.

Exploring the Adoption of Physical Security Controls in Smartphones
Nasser O. Alshammari, *Saudi Arabia*; Alexios Mylonas, Mohamed Sedky, Justin Champion, Carolin Bauer, *United Kingdom*.

Predicting Graphical Passwords
Matthieu Devlin, Jason Nurse, Duncan Hodges, Michael Goldsmith, Sadie Creese, *United Kingdom*.

An Extensible Platform for the Forensic Analysis of Social Media Data
Huw Read, Konstantinos Xynos, *United Kingdom*; Iain Sutherland, *Norway*; Frode Roarson, Panagiotis Andriotis, George Oikonomou, *United Kingdom*.

HCI in Business

HCIB S019

User Experience, Social Media, and Enterprise Systems
Chair(s): Honglei Li, *United Kingdom*.

Room: **SAN BERNARDINO**

Enhancing User Experience of Enterprise Systems for Improved Employee Productivity: A First Stage of Case Study
Honglei Li, *United Kingdom*.

Developing a Context Model of Process Variants for Business Process Integration
Jorge E. Giraldo, Demetrio A. Ovalle, *Colombia*; Flavia M. Santoro, *Brazil*.

Designing Enterprise System Information Architecture Using Task Data
Dawei Huang, *United States*.

Reimagining Project Management Applications via Gamification
Charles Butler, *United States*.

Element Prioritization for Online Service Identity Management
Hoon Sik Yoo, Young Hwan Pan, *Korea*; Ping Shui, *P.R. China*; Da Young Ju, *Korea*.

S020

HCI Research in Business - I
Chair(s): Fiona Fui-Hoon Nah, *United States*.

Room: **SAN PEDRO**

Social Media in Health Care
Brenda Eschenbrenner, Fiona Fui-Hoon Nah, *United States*.

To Believe or Not to Believe a Call to Action: An Empirical Investigation of Source Credibility
Craig Claybaugh, *United States*.

Enhancing the Explanatory Power of Intelligent User Interfaces with Diagrams
Robbie Nakatsu, *United States*.

Neuroscience analysis of business information modeling constructs
Keng Siau, *United States*.

A Study of the Uses of Instant Messaging in the Government Offices – a Case of the Macau Government Offices
Rachael K.F. Ip, Akina K.W. Ho, *Macau*.

Engaging Online Review Writing Experience: Effect of Motivational Affordance on Review Quality
Xiaofang Cai, Patrick Y.K. Chau, *Hong Kong*.

LCT S021

Supporting online communities of learners
 Chair(s): Maria Mama-Timotheou, Cyprus.

Room: **LOS FELIZ**

CATALYST: Technology-assisted Collaborative and Experiential Learning for School Students
 Vikas Goel, Utkarsh Mishra, Soumya Tiwari, Ravi Mokashi Punekar, Keyur Sorathia, Kuldeep Yadav, Om D. Deshmukh, India.

Collaborative Tablet PC the System for Self-active Awareness in a Dormitory Environment
 Hironobu Satoh, Shigenori Akamatsu, Masanobu Yoshida, Takumi Yamaguchi, Fuyuko Eguchi, Yuriko Higashioka, Japan.

Can Games Motivate Urban Youth for Civic Engagement?
 Alma L. Culén, Sumit Pandey, Swati Srivastava, Katie Coughlin, Norway.

Understanding Nomophobia: A Modern Age Phobia among College Students
 Caglar Yildirim, Ana-Paula Correia, United States.

The Future of Electronic Textbooks from a User Perspective
 Kimberly Anne Sheen, Yan Luximon, Hong Kong.

Differentiation of Student Perceptions for Online Courses, over Time
 Maria Mama-Timotheou, Cyprus.

Enhancing the Learner's Performance Analysis using SMEUS Semantic E-learning System and Business Intelligence Technologies
 Fisnik Dalipi, Sule Yildirim-Yayilgan, Zenun Kastrati, Norway.

ITAP S022

New Media in the Everyday Life of Older People - I
 Chair(s): Eugene F. Loos, Netherlands.

Room: **BEAUDRY A**

Access and Use of ICTs among the Italian Young Elderly: A Field Study
 Fausto Colombo, Simone Carlo, Italy.

Lack of Development and Usability Descriptions in Evaluation Reports on Online Health Information Tools for Older Patients
 Sifra Bolle, Julia C.M. Van Weert, Ellen M.A. Smets, Eugene F. Loos, Netherlands.

Age-related Differences in a Usability Study Measuring Accuracy, Efficiency, and User Satisfaction in using Smartphones for Census Enumeration: Fiction or Reality?
 Erica Olmsted-Hawala, Temika Holland, United States.

Processing Speed and Vocabulary Are Related to Older Adults' Internet Experiences
 Jennifer Romano Bergstrom, Erica Olmsted-Hawala, Wendy A. Rogers, United States.

Patterns of ICT Use among "Senior Technology Experts": The Role of Demographic Variables, Subjective Beliefs and Attitudes
 Michael Doh, Laura I. Schmidt, Florian Herbolsheimer, Mario Jokisch, Hans-Werner Wahl, Germany.

Baby Boomers and Gaze Enabled Gaming
 Soussan Djamassbi, Seyed Siavash Mortazavi, Mina Shojaeizadeh, United States.

Usability Evaluation of a Social Networking Site Prototype for the Elderly
 Jessica Arfaa, Yuanqiong (Kathy) Wang, United States.

S023

Conditions and factors of development of innovative technologies for the elderly: methods, uses and applications
 Chair(s): Marc-Eric Bobillier Chaumon, France.

Room: **BEAUDRY B**

Development of Automatic Speech Recognition Techniques for Elderly Home Support: Applications and Challenges
 Michel Vacher, Frédéric Aman, Solange Rossato, François Portet, France.

Psychosocial Approach of Skills Obsolescence in Older Workers: Contribution of Methodological Triangulation
 Florence Cros, Marc-Eric Bobillier Chaumon, Bruno Cuvillier, France.

Abilities to Use Technological Communication Tools in Aging: Contribution of a Structured Performance-Based Evaluation
 Lisa Quillion-Dupré, Emmanuel Monfort, Vincent Rialle, France.

Understanding the Socio-Domestic Activity: a Challenge for the Ambient Technologies Acceptance in the Case of Homecare Assistance
 Salima Body-Bekkadja, Marc-Eric Bobillier Chaumon, Bruno Cuvillier, Florence Cros, France.

Innovative Technology-Based Healthcare and Support Services for Older Adults: How and Why Industrial Initiatives Convert to the Living Lab Approach
 Maribel Pino, Caroline Moget, Samuel Benveniste, Robert Picard, Anne-Sophie Rigaud, France.

A Framework for Evaluating the Implementers' Experience in Making Existing Products Accessible: The Prosperity4all Approach
 Katerina Toulou, Maria Gemou, Greece; Till Riedel, Germany; Maria Panou, Evangelos Bekiaris, Greece.

Developing Radical-Digital Interventions to Tackle Loneliness Amongst the Elderly
 Dhruv Sharma, Lynne Blair, Stephen Clune, United Kingdom;

Human-Computer Interaction

HCI	S024
<p>Socio-cultural Aspects in Monolingual and Multilingual Human-Computer Interaction</p> <p>Chair(s): Christina Alexandris, Greece.</p> <p>Room: AVALON</p>	
<p>Socio-Cultural Aspects in the Design of Multilingual Banking Interfaces in the Arab Region</p> <p>Sarah AlHumoud, Lamia Alabdulkarim, Nouf Almobarak, Areej Al-Wabil, Saudi Arabia.</p>	
<p>Interactive Evaluation of Pragmatic Features in Spoken Journalistic Texts</p> <p>Christina Alexandris, Mario Nottas, George Cambourakis, Greece.</p>	
<p>Giving Voices to Multimodal Applications</p> <p>Nuno Almeida, António J. S. Teixeira, Ana Filipa Rosa, Portugal; Daniela Braga, United States; João Freitas, Miguel Sales Dias, Samuel Silva, Jairo Avelar, Cristiano Chesi, Nuno Saldanha, Portugal.</p>	
<p>A Lexical Analysis of Nouns and Adjectives from Online Game Reviews</p> <p>Miaoqi Zhu, Xiaowen Fang, United States.</p>	
<p>Using a Lexical Approach to Investigate User Experience of Social Media Applications</p> <p>Abdullah Azhari, Xiaowen Fang, United States.</p>	
<p>Using Neural Networks for Data-Driven Backchannel Prediction: A Survey on Input Features and Training Techniques</p> <p>Markus Müller, David Leuschner, Lars Briem, Maria Schmidt, Kevin Kilgour, Sebastian Stüker, Alex Waibel, Germany.</p>	

S025
<p>Designing and interacting with games</p> <p>Chair(s): Cristiano Maciel, Brazil.</p> <p>Room: EMERALD BAY</p>
<p>An Investigation of Reward Systems in Human Computation Games</p> <p>Dion Hoe-Lian Goh, Ei Pa Pa Pe-Than, Chei Sian Lee, Singapore.</p>
<p>Play to Remember: The Rhetoric of Time in Memorial Video Games</p> <p>Răzvan Rughiniș, Ștefania Matei, Romania.</p>
<p>'Sketchy Wives' and 'Funny Heroines' - Doing and Undoing Gender in Art Games</p> <p>Cosima Rughiniș, Elisabeta A.R. Toma, Romania.</p>
<p>A Dome-Shaped Interface Embedded with Low-Cost Infrared Sensors for Car-Game Control by Gesture Recognition</p> <p>Jasmine Bhanushali, Sai Parthasarathy Miduthuri, Kavita Vemuri, India.</p>
<p>Effect of Gamification in a Digital Photo Collection System with Geographical Information Utilizing a Land Acquisition Game</p> <p>Rie Yamamoto, Takashi Yoshino, Japan.</p>

Human Interface and the Management of Information

HIMI	S026
<p>Human-centered Information Systems, Services and Applications</p> <p>Chair(s): Ryosuke Saga, Japan.</p> <p>Room: SANTA ANITA B</p>	
<p>Map matching to correct location error in an electric wheel chair</p> <p>Yuta Noriduki, Hirotochi Shibata, Shigenori Ioroi, Hiroshi Tanaka, Japan.</p>	
<p>Method to Generate an Operation Learning Support System by Shortcut Key Differences in Similar Software</p> <p>Hajime Iwata, Japan.</p>	
<p>Edge Bundling in Multi-attributed Graphs</p> <p>Takafumi Yamashita, Ryosuke Saga, Japan.</p>	
<p>Kick Extraction for Reducing Uncertainty in RoboCup Logs</p> <p>Tomoharu Nakashima, Satoshi Mifune, Jordan Henrio, Oliver Obst, Japan; Peter Wang, Mikhail Prokopenko, Australia.</p>	
<p>Increase and Decrease of Optical Illusion Strength by Vibration</p> <p>Teluhiko Hilano, Kazuhisa Yanaka, Japan.</p>	
<p>Design of Framework for Students Recommendation System in Information Technology Skills</p> <p>Thongchai Kaewkiriya, Thailand.</p>	
<p>Virtual Aquarium: A Mixed Reality Consisting of 3DCG Animation and Underwater Integral Photography</p> <p>Nahomi Maki, Kazuhisa Yanaka, Japan.</p>	

S027
<p>Improvement in Learning and Educational Environments using ICT - II</p> <p>Chair(s): Takahito Tomoto, Takako Akakura, Japan.</p> <p>Room: SANTA ANITA A</p>
<p>Development of a Learning Support System for Reading Source Code by Stepwise Abstraction</p> <p>Keisuke Watanabe, Takahito Tomoto, Takako Akakura, Japan.</p>
<p>Development of a Learning Support System for Class Structure Mapping Based on Viewpoint</p> <p>Tatsuya Arai, Takahito Tomoto, Takako Akakura, Japan.</p>
<p>The effect of problem sequence on students' conceptual understanding in physics</p> <p>Tomoya Horiguchi, Takahito Tomoto, Tsukasa Hirashima, Japan.</p>
<p>Analysis of the Relationship between Metacognitive Ability and Learning Activity with Kit-build Concept Map</p> <p>Yusuke Hayashi, Tsukasa Hirashima, Japan.</p>
<p>Analysis of multiple-choice tests through erroneous choices using a technique of automatic problem generation</p> <p>Noriyuki Matsuda, Hisashi Ogawa, Tsukasa Hirashima, Hirokazu Taki, Japan.</p>
<p>Innovation Compass: Integrated System to support Creativity in both Individuals and Groups</p> <p>Yoshiharu Kato, Tomonori Hashiyama, Shun'ichi Tano, Japan.</p>

WEDNESDAY 10:30 - 12:30

UAHCI S028

Technologies supporting universal access

Chair(s): Frode Eika Sandnes, Norway.

Room: **SAN GABRIEL A**

On the Understandability of Public Domain Icons: Effects of Gender and Age

Gerd Berget, Frode Eika Sandnes, Norway.

The Effect of Dyslexia on Searching Visual and Textual Content: Are Icons Really Useful?

Gerd Berget, Frode Eika Sandnes, Norway.

The Accessibility of Web-based Media Services – An Evaluation

Norun Christine Sanderson, Weiqin Chen, Siri Kessel, Norway.

Speech Driven by Artificial Larynx: Potential Advancement Using Synthetic Pitch Contours

Hua-Li Jian, Norway.

Exploring the Interactivity Issues of the Stereoscopic 3D Systems for Design Education

Li-Chieh Chen, Yun-Maw Cheng, Po-Ying Chu, Taiwan; Frode Eika Sandnes, Norway.

Feature Detection Applied to Context-aware Blind Guidance Support

Hugo Fernandes, André Sousa, Hugo Paredes, Vitor Filipe, João Barroso, Portugal.

Usability Evaluation of a Mobile Navigation Application for Blind Users

Márcia De Borba Campos, Brazil; Jaime Sánchez, Chile; Juliana Damásio, Tasmay Inácio, Brazil.

S029

Interaction Science, Computer Sciences and Engineering: The Interdisciplinary Nature of Universal Access

Chair(s): Gisela Susanne Bahr, United States.

Room: **SAN GABRIEL B**

Finger-based Pointing Performance on Mobile Touchscreen Devices: Fitts' Law Fits

Sandi Ljubic, Vlado Glavinic, Mihael Kukec, Croatia.

Behavioral Biometrics for Universal Access and Authentication

Liam M Mayron, United States.

Rapid Model-Driven Annotation and Evaluation for Object Detection in Videos

Marc Ritter, Michael Storz, Manuel Heinzig, Maximilian Eibl, Germany.

Knowledge, Technology and Intelligence for eInclusion

Laura Burzagli, Pier Luigi Emiliani, Italy.

Defining Acceptable Interaction for Universal Access

Simeon Keates, United Kingdom.

Design Engineering and Human Computer Interaction: Function Oriented Problem Solving in CAD applications

Gisela Susanne Bahr, Stephen Wood, Anthony Escandon, United States.

Adaptive Sensor Data Fusion for Efficient Climate Control Systems

Matthias Vodel, Marc Ritter, Wolfram Hardt, Germany.

S030

Multisensory interfaces: Designing Across Boundaries - II

Chair(s): Luisa Paraguai, Carlos A. Barbosa, Brazil.

Room: **SAN GABRIEL C**

'Sensual Technology and Liminal Aesthetics'

Blanka Domagalska, United States.

Sensoriality and Conformed Thought

Silvia Laurentiz, Brazil.

Games for Change: The Strategic Design of Interactive Persuasive Systems

Igor Revoredo Hosse, Rachel Zuanon, Brazil.

Informational Geography: Re-writing and Re-reading maps

Carlos A. Barbosa, Luisa Paraguai, Brazil.

VAMR S031

Training Trends in Virtual, Augmented, and Mixed Reality - II

Chair(s): Julie N Salcedo, United States.

Room: **SANTA MONICA A**

Leveraging Stress and Intrinsic Motivation to Assess Scaffolding during Simulation-Based Training

Julie N Salcedo, Stephanie J. Lackey, Karla A. Badillo-Urquiola, United States.

A Serious-Game Framework to Improve Physician/Nurse Communication

Marjorie Zielke, Susan Houston, Mary Elizabeth Mancini, Gary Hardee, Louann Cole, Djakhangir Zakhidov, Ute Fischer, Timothy Lewis, United States.

Virtual Approach to Psychomotor Skills Training: Manipulating the Appearance of Avatars to Influence Learning

Irwin L Hudson, Karla A. Badillo-Urquiola, United States.

Assessing Performance Using Kinesic Behavior Cues in a Game-Based Training Environment

Karla A. Badillo-Urquiola, Crystal S. Maraj, United States.

Design of the Augmented Reality Based Training System to Promote Spatial Visualization Ability for Older Adults

Kuo Ping Chang, Chien Hsu Chen, Taiwan.

CCD S032

Cross-Cultural Design

From Dechnology to Humarts - II
 Chair(s): Rungtai Lin, *Taiwan*;
 John G. Kreifeldt, *United States*;
 Po-Hsien Lin, *Taiwan*.

Room: **SANTA MONICA B**

The Application of Chinese Poem "Yu Mei Ren" in Design
 Mo-Li Yeh, Hsi-Yen Lin, Ming-Shean Wang, Rungtai Lin, *Taiwan*.

A Design Strategy of Cultural and Creative Products on the Global Market
 Chi-Hsien Hsu, Wang-Chin Tsai, *Taiwan*.

Traditional Western Art Elements in Disney Animations, Elite Influence in Mass Culture through the Prism of the Frankfurt School
 Nai-Hsuan Lin, Shwu-Huoy Tzou, *Taiwan*.

The Effects of Form Ratio in Product Design
 Chiu-Wei Chien, Chih-Long Lin, Rungtai Lin, *Taiwan*.

From OEM to OBM - A Case Study of Branding Taiwan
 Hui-Yun Yen, Yu-Ju Lin, *Taiwan*;
 Yige Jin, *P.R. China*;
 Rungtai Lin, *Taiwan*.

From Invisible to Visible: The Evolution of Space Formation of the Nineteenth Century Christian Missionary Work in Taiwan
 Yin-Chun Tseng, Kun-Chen Chang, Fu-Kuo Mii, *Taiwan*.

SCSM S033

Social Computing and Social Media

Virtual Worlds in Education, Training and Applications
 Chair(s): James Braman,
 Yuanqiong (Kathy) Wang, *United States*.

Room: **LOS CERRITOS**

3D Virtual Worlds: An Ethnography of Key Artifacts and Processes
 Nick Flor, *United States*.

Utilizing Virtual Worlds for Personalized Search: Developing the PASIVE Framework
 James Braman, Charles Dierbach, *United States*.

Social Media and Higher Education: a Literature Review
 Yuanqiong (Kathy) Wang, Gabriele Meiselwitz, *United States*.

Talking Circles: Spiritual Aid for Teenagers through Social Media
 Markandeya Kunchi, Shubhi Shrivastava, *India*.

AC S034

Augmented Cognition

HCI for BCI
 Chair(s): Jose Rouillard, *France*.

Room: **PALOS VERDES**

BCI and Eye Gaze: Collaboration at the Interface
 Leo Galway, Chris Brennan, Paul McCullagh, Gaye Lightbody, *United Kingdom*.

Human Computer Confluence in BCI for Stroke Rehabilitation
 Rupert Ortner, Danut-Constantin Irimia, Christoph Guger, Günter Edlinger, *Austria*.

Relevant HCI for Hybrid BCI and Severely Impaired Patients
 Jose Rouillard, Alban Duprès, François Cabestaing, Marie-Hélène Bekaert, Charlotte Piau, Christopher Coat, Jean-Marc Vannobel, Claudine Lecocq, *France*.

Exploring Day-to-day Variability in the Relations between Emotion and EEG Signals
 Yuan-Pin Lin, Sheng-Hsiou Hsu, Tzzy-Ping Jung, *United States*.

Improving BCI Usability as HCI in Ambient Assisted Living System Control
 Niccolo Mora, Ilaria De Munari, Paolo Ciampolini, *Italy*.

Discrimination in Good-Trained Brain States for Brain Computer Interface
 Mariko Funada, Tadashi Funada, Yoshihide Igarashi, *Japan*.

Phylter: A System for Modulating Notifications in Wearables Using Physiological Sensing
 Daniel Afergan, Samuel W. Hincks, Tomoki Shibata, Robert J.K. Jacob, *United States*.

DHM S035

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

Utilizing Traditional Wisdom and Technologies in Industry - II
 Chair(s): Hiroyuki Hamada, *Japan*.

Room: **SANTA BARBARA C**

Comparison of KEMOMI Technique between Master Craftsman and Unskilled Worker
 Shinichiro Kawabata, *Japan*;
 Zhilan Xu, *P.R. China*;
 Akihiko Goto, Hiroyuki Hamada, *Japan*.

Light Transmission Properties of Insert Molded GFRPs with Different Crape Structure of Silk Fabrics
 Kiyoshi Fujiwara, Erika Suzuki, Tetsuo Kikuchi, Takashi Furukawa, Atsushi Endo, Yuka Takai, *Japan*;
 Yuqiu Yang, *P.R. China*.

Colorimetry and Impression Evaluation of Insert Molded GFRP Plate with Black Silk Fabrics
 Kiyoshi Fujiwara, Erika Suzuki, Tetsuo Kikuchi, Takashi Furukawa, Takahiro Suzuki, Atsushi Endo, Yutaro Shimode, Yuka Takai, *Japan*;
 Yuqiu Yang, *P.R. China*.

Improvement of Needle Bar in Textile Machine by Hitting Process
 Kontawat Chottikampon, *Thailand*;
 Suchalinee Mathurosemontri, Hitoshi Marui, Ryo Marui, Hiroyuki Nishimoto, Hiroyuki Hamada, *Japan*.

"OMOTENASHI" in the Japanese Bridal Market
 Shigeyuki Takami, Aya Takai, Takuya Sugimoto, Masamichi Suda, Hiroyuki Hamada, *Japan*.

An Investigation on Conversion from Tacit Knowledge to Explicit Knowledge in Hand lay-up Fabrication Method
 Tetsuo Kikuchi, Erika Suzuki, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

DUXU S036

Speech, sound, touch and gestures in DUXU

Chair(s): Tatiana A. Tavares, *Brazil*.

Room: **SANTA ANITA C**

Lyricon (Lyrics + Earcons) Improves Identification of Auditory Cues

Yuanjing Sun, Myoungsoon Jeon, *United States*.

Sound Design and UX: The Dynamic Audio Application Guide

Luiz Roberto Carvalho, Alice T. Cybis Pereira, *Brazil*.

Maarech: Usability Testing Tool for Voice Response System using XML based User Models

Siddhartha Asthana, Pushpendra Singh, *India*.

Usability Heuristics for Heuristic Evaluation of Gestural Interaction in HCI

Ngip Khean Chuan, Ashok Sivaji, Wan Fatimah Wan Ahmad, *Malaysia*.

How to Design an User Interface Based on Gestures?

Anna C. S. Medeiros, Tatiana A. Tavares, Iguatemi E. Da Fonseca, *Brazil*.

Virtual Touchpad for Cursor Control of Touchscreen Thumb Operation in the Mobile Context

Yuren Lai, T. K. Philip Hwang, *Taiwan*.

User Study on 3D Multitouch Interaction (3DMi) and Gaze on Surface Computing

Eugene Ch'ng, Neil Cooke, *United Kingdom*.

S037

DUXU practice and innovation

Chair(s): Johannes Robier, *Austria*.

Room: **SANTA BARBARA B**

Software Project Management Combining Agile, Lean Startup and Design Thinking

Bianca H. Ximenes, Isadora N. Alves, Cristiano C. Araújo, *Brazil*.

A Study Customer Journey Map for User Experience Analysis of Information and Communications Technology Service

Jin Ho Lee, Min Ji Kim, Sung Woo Kim, *Korea*.

A Field Study on Basic Usage Patterns of Traditional Watch and Phone for Designing Smart Watch

Zijian Zhu, Haidi Song, *P.R. China*; Sung Woo Kim, *Korea*.

A Posture HCI Design Pattern for Television Commerce Based on User Experience

Rosendy J. F. Galabo, Carlos Soares Neto, *Brazil*.

Innovation, Exceptional Experience and Sustainable Success Made Easy: The NI© Needs Innovation Model

Johannes Robier, *Austria*.

Design Thinking Methods and Tools for Innovation

Dimitra Chasanidou, Andrea Alessandro Gasparini, Eunji Lee, *Norway*.

S038

Women in DUXU - II

Chair(s): Javed Anjum Sheikh, *Pakistan*.

Room: **SANTA BARBARA A**

3D Real Time Virtual Fitting Room for Women

Salin Boonbrahm, Charlee Kaewrat, Lanjakorn Sewata, Patiwat Katerlertprasert, Poonpong Boonbrahm, *Thailand*.

Gender Differences in Temporal Data Analysis. Toward Women or Men Empowerment?

Ilona Nawrot, *Poland*.

Adapting Smart Textiles to Develop Soft Interactive Tool kits for Applying in Sewing Projects

Aqua Chuan-Yu Chen, *Taiwan*.

Teaching the Islamic Prayer using Interactive Software

Mohammed Farsi, Malcolm Munro, *United Kingdom*.

Inclusive Gaming Creation by Design in Formal Learning Environments: "Girly-Girls" User Group in No One Left Behind

Maria Eugenia Beltrán, Yolanda Ursa, *Spain*; Anja Petri, Christian Schindler, Wolfgang Slany, Bernadette Spieler, *Austria*; Silvia De los Rios, Maria Fernanda Cabrera-Umpierrez, Maria Teresa Arredondo, *Spain*.

The Invisible User: Women in DUXU

Javed Anjum Sheikh, Aneela Abbas, *Pakistan*.

A Study on Shopping Websites Payeasy for Female Customers in Taiwan

Hsiu Ching Laura Hsieh, Ning Chun Cheng, *Taiwan*.

DAPI S039

continues...

Empowerment through Making & Prototyping - Unleashing new creative processes with users

Chair(s): Ingrid Mulder, *Netherlands*; Emilia Louisa Pucci, *United States*.

Room: **SANTA MONICA C**

The transformative potential of Making in teacher education. A Case Study on Teacher Training through Making and Prototyping

Susanna Tesconi, Lucia Arias, *Spain*.

Makers With a Cause: Fabrication, Reflection and Community Collaboration

Foad Hamidi, Melanie Baljko, *Canada*.

Co-Design Practice in a Smart City Context through the Gamification Approach: a Survey about the most Suitable Applications

Antonio Opromolla, Valentina Volpi, Andrea Ingrassio, Carlo Maria Medaglia, *Italy*.

Star(t) to Shine: Unlocking Hidden Talents through Sharing and Making

Emilia Louisa Pucci, Ingrid Mulder, *Netherlands*.

Co-creation in Context: the user as co-creator approach

Ingrid Mulder, Fenne Van Doorn, Pieter Jan Stappers, *Netherlands*.

DAPI S040

Location-based applications in smart environments

Chair(s): Koh Kakusho, *Japan*.

Room: **SANTA MONICA D**

User Location Modeling based on Heterogeneous Data Sources

Patrick Gottschaemmer, Tobias Große-Puppenthal, Arjan Kuijper, *Germany*.

Crowd Monitoring: Critical Situations Prevention using Smartphones and Groups Detection

Joseph El Mallah, Francesco Carrino, Omar Abou Khaled, Elena Mugellini, *Switzerland*.

Estimating Positions of Students in a Classroom from Camera Images Captured by the Lecturer's PC

Junki Nishikawa, Koh Kakusho, Masaaki Iiyama, Satoshi Nishiguchi, Masayuki Murakami, *Japan*.

Children Tracking System in Indoor and Outdoor Places

Mounira Taaleb, Wejdan Wajdi, Hind Hamdi, Galia Al-Garni, Sarah Al-Shehri, Manal Al-Marwani, *Saudi Arabia*.

Gesture-based Configuration of Location Information in Smart Environments with Visual Feedback

Carsten Stocklów, Martin Majewski, *Germany*.

BearWatcher: Animal Motion Estimation Application for Tourism and Welfare

Keni Ren, *Sweden*; Jani Hourunranta, Joni Tolonen, *Finland*; Johannes Karlsson, *Sweden*.

Aspects Concerning the Calibration Procedure for a Dual Camera Smartphone based ADAS

Mihai Duguleana, Florin Girbacia, Cristian Postelnicu, Andreea Beraru, Gheorghie Mogan, *Romania*.

HAS S041

Considering Privacy & Security in Health, Education, Communication, and E-commerce: Approaches to Design and Policy Development

Chair(s): Theo Tryfonas, *United Kingdom*.

Room: **SAN FERNANDO**

Do Graphical Cues Effectively Inform Users? A Socio-technical Security Study in Accessing WiFi Networks

Ana Ferreira, Jean-Louis Huynen, Vincent Koenig, Gabriele Lenzini, Salvador Rivas, *Luxembourg*.

Opinions or Algorithms: An Investigation of Trust in People Versus Automation in App Store Security

David Schuster, Mary L. Still, Jeremiah D. Still, Ji Jung Lim, Cary S. Fera, Christian P. Rohrer, *United States*.

Pervasive Monitoring as an Insider Threat: An Adapted Model

Dana Polatin-Reuben, *United Kingdom*.

An Identification of Variables Influencing the Establishment of Information Security Culture

Emad Sherif, Steven Furnell, Nathan Clarke, *United Kingdom*.

Factors Contributing to Performance for Cyber Security Forensic Analysis

Shelby Hopkins, Andrew Wilson, Austin Silva, Chris Forsythe, *United States*.

HCIB S042

HCI Research in Business - II

Chair(s): Chuan-Hoo Tan, *Hong Kong*.

Room: **SAN PEDRO**

Privacy by Design: Examining Two Key Aspects of Social Applications

Ben CF Choi, Joseph Tam, *Australia*.

An Architecture-Oriented Design Method for Human-Computer Interaction Systems

Yu-Chen Yang, Yi-Ling Lin, William S. Chao, *Taiwan*.

The Design of IdeaWorks: Applying Social Learning Networks to Support Tertiary Education

Lele Kang, *Hong Kong*; Shaokun Fan, *United States*; J. Leon Zhao, *Hong Kong*.

Productpedia – A Collaborative Electronic Product Catalog for Ecommerce 3.0

Wee-Kek Tan, Hock Hai Teo, *Singapore*.

A Literature Review for Open Source Software Studies

Qiqi Jiang, Jianjun Qin, *P.R. China*; Lele Kang, *Hong Kong*.

The Value of Expert vs User Generated Information in Online Health Communities

Jie Mein Goh, *Canada*; Elena Yndurain, *United States*.

An Exploratory Study of Website Localization Strategies: The Effect of Exogenous Factors

Tailai Wu, Chih-Hung Peng, Yani Shi, Choon Ling Sia, *Hong Kong*.

S043

Strategic Social Media and Usability

Chair(s): Constantinos K. Coursaris, Wietske Van Osch, Sarah J. Swierenga, *United States*.

Room: **SAN BERNARDINO**

Are Spectacles the Female Equivalent of Beards for Men? How Wearing Spectacles in a LinkedIn Profile Picture Influences Impressions of Perceived Credibility and Job Interview Likelihood

Sarah F Van der Land, Lotte Willemsen, *Netherlands*; Suzanne A.J. Unkel, *Ireland*.

The Impact of Usability on Patient Safety in Long-Term Care

Fuad Abujarad, Sarah J. Swierenga, Toni A. Dennis, Lori A. Post, *United State*.

Leveraging Social Media for the Fishing Industry: An Exploratory Study

Azrin Shah Ismail, Haliyana Khalid, *Malaysia*.

Kindle: How Gamification can Motivate Jobseekers

Bart Van der Kruijs, Vassilis Javed Khan, *Netherlands*.

Are Social Media and Smartphones Enhancing Leader-Member Exchanges (LMX)?: Evaluating Moderation vs. Mediation Hypotheses

Seung Chan Jeong, Jang Hyun Kim, *Korea*.

Human Aspects of Information Security, Privacy and Trust

HCI in Business

LCT S044

Dissecting User Experience (UX) when Users Objective is to Learn
Chair(s): Aimilia Tzanavari, *Cyprus*; Andrina Granić, *Croatia*; Yugo Hayashi, *Japan*.

Room: **LOS FELIZ**

Usability of Educational Technology APIs: Findings and Guidelines
Evangelos Kapros, Neil Peirce, *Ireland*.

An Eye-Tracking Analysis of Spatial Contiguity Effect in Educational Animations
Tuğba Altan, Kürşat Çağıltay, *Turkey*.

CyberPLAYce, a Cyber-Physical-Spatial Storytelling Tool: Results from an Empirical Study with 8-10-year-old Storytellers
Arash Soleimani, Keith Evan Green, Danielle C. Herro, Ian D. Walker, Christina Gardner-McCune, *United States*.

Designing Pedagogical Agents to Evoke Emotional States in Online Tutoring - Investigating the Influence of Animated Characters
Yugo Hayashi, Daniel Moritz Marutschke, *Japan*.

A Computational Model to Determine Desirability of Events based on Personality for Performance Motivational Orientation Learners
Somayah Fatahi, *Canada*; Hadi Moradi, Ali Nouri Zonoz, *Iran*.

The Effect of Metaphoric Gestures on Schematic Understanding of Instruction Performed by a Pedagogical Conversational Agent
Dai Hasegawa, Shinichi Shirakawa, Naoya Shioiri, Toshiki Hanawa, Hiroshi Sakuta, Kouzou Ohara, *Japan*.

ITAP S045

New Media in the Everyday Life of Older People - II
Chair(s): Eugene F. Loos, *Netherlands*.

Room: **BEAUDRY A**

An Older Person and New Media in Public Discourses: Impossible Encounters?
Monika Wilińska, *United Kingdom*.

Why Age Is Not That Important? An Ageing Perspective on Computer Anxiety
Mireia Fernández-Ardèvol, *Spain*; Loredana Ivan, *Romania*.

Constructing Third Age eHealth Consumers by Using Personas from a Cultural Age Perspective
Maria Ekström, *Finland*; Eugene F. Loos, *Netherlands*.

Older People's Attitude towards Mobile Communication in Everyday Life: Digital Literacy and Domestication Processes
Francesca Comunello, Simone Mulargia, Francesca Belotti, *Italy*; Mireia Fernández-Ardèvol, *Spain*.

Age(ism) in Digital Information Provision: The Case of Online Public Services for Older Adults
Maria Sourbati, *United Kingdom*.

Accessing InterACTION: Ageing with Technologies and the Place of Access
Constance Lafontaine, Kim Sawchuk, *Canada*.

S046

Wearable technologies and smart artifacts for older people
Chair(s): Tracy J. Doty, *United States*.

Room: **BEAUDRY B**

The Wearable Multimodal Monitoring System: A Platform to Study Falls and Near-Falls in the Real-World
Tracy J. Doty, Bret Kellihan, Tzyy-Ping Jung, *United States*; John K. Zao, *Taiwan*; Irene Litvan, *United States*.

Design and Fabricate Neckwear to Improve the Elderly Patients' Medical Compliance
Xiaolong Wu, Young Mi Choi, Maysam Ghovanloo, *United States*.

The Use of Smartwatches for Health Monitoring in Home-based Dementia Care
Konstantinos Boletsis, Simon McCallum, Brynjar Fowels Landmark, *Norway*.

Investigation of Sensitivity of Foot Soles to Vibrational Stimuli: First Results for Developers of Information Interfaces
Stefan Lutherdt, Eva Kaiser, Tim Kirchhofer, Philipp Wegerich, Hartmut Witte, *Germany*.

Designing Cross-Age Interaction Toys for Older Adults and Children
Wang-Chin Tsai, Chi-Hsien Hsu, Kung-Chih Lo, *Taiwan*.

TwitterIDo: What If My Shopping Bag Could Tell My Friends I'm Out Shopping
Elena Nazzi, Tomas Sokoler, *Denmark*.

HCI S047

Assistive, mental health and wellness technologies and models
 Chair(s): Michael P Craven, Simone Borsci, *United Kingdom*; Stefano Federici, *Italy*.
 Room: **AVALON**

Short Scales of Satisfaction Assessment: A Proxy to Involve Disabled Users in the Usability Testing of Websites
 Simone Borsci, *United Kingdom*; Stefano Federici, Maria Laura Mele, Matilde Conti, *Italy*.

Evaluating a Public Display Installation with Game and Video to Raise Awareness of Attention Deficit Hyperactivity Disorder
 Michael P Craven, Lucy Simons, Alinda Gillott, Steve North, Holger Schnadelbach, Zoe Young, *United Kingdom*.

Beyond Direct Gaze Typing: a Predictive Graphic User Interface for Writing and Communicating by Gaze
 Maria Laura Mele, Damon Millar, Christiaan Erik Rijnders, *Italy*.

A Systematic Review of Dementia focused Assistive Technology
 Joanna Evans, Michael Brown, Tim Coughlan, Glyn Lawson, Michael P Craven, *United Kingdom*.

Digital Wellbeing Assessments for People Affected by Dementia
 Kyle Harrington, Paul Fulton, Michael Brown, James Pinchin, Sarah Sharples, *United Kingdom*.

BETTER-Project: Web Accessibility for Persons with Mental Disorders
 Renaldo M Bernard, Carla Sabariego, *Germany*; David Baldwin, *United Kingdom*; Shadi Abou-Zahra, *France*; Alarcos Cieza, *Germany*.

The Definition and Use of Personas in the Design of Technologies for Informal Caregivers
 Susanne Hensely-Schinking, Aparecido Fabiano Pinatti de Carvalho, Michael Glanznig, Hilda Tellioglu, *Austria*.

S048

Gaze-based interaction
 Chair(s): Makoto Moriwaka, *Japan*.
 Room: **EMERALD BAY**

Automatic Classification between Involuntary and Two Types of Voluntary Blinks based on an Image Analysis
 Hironobu Sato, Kiyohiko Abe, Shoichi Ohi, Minoru Ohyama, *Japan*.

Effects of Target Shape and Display Location on Pointing Performance by Eye-Gaze Input System -Modeling of pointing time by extended Fitts' law-
 Atsuo Murata, Makoto Moriwaka, Daichi Fukunaga, *Japan*.

Optimal Scroll Method for Eye-Gaze Input System - Comparison of R-E and R-S compatibility-
 Atsuo Murata, Makoto Moriwaka, Yusuke Takagishi, *Japan*.

Nonlinear Dynamical Analysis of Eye Movement Characteristics using Attractor Plot and First Lyapunov Exponent
 Atsuo Murata, Tomoya Matsuura, *Japan*.

Improvement of Accuracy in Remote Gaze Detection for User Wearing Eyeglasses Using Relative Position between Centers of Pupil and Corneal Sphere
 Kiyotaka Fukumoto, Takumi Tsuzuki, Yoshinobu Ebisawa, *Japan*.

HIMI S049

Development of tactile and gestural displays for navigation, communication, and robotic control
 Chair(s): Linda R. Elliott, Gina Hartnett-Pomranky, *United States*.
 Room: **SANTA ANITA A**

Development of Tactile and Gestural Displays for Navigation, Communication, and Robotic Control
 Anna Skinner, Jack Vice, Lisa Baraniecki, *United States*.

Effects of Tacton Names and Learnability
 Daniel Barber, Christopher Beck, *United States*.

Augmenting Soldier Situation Awareness and Navigation through Tactile Cueing
 Linda R. Elliott, Bruce J P Mortimer, Gina Hartnett-Pomranky, Gary Zets, Greg Mort, *United States*.

Multisensory Information Processing for Enhanced Human-Machine Symbiosis
 Frederick D. Gregory, Liyi Dai, *United States*.

Human Factors to Consider During the Early Development and Dissemination of New Displays to Improve Spatial Orientation and Situation Awareness
 Ben Lawson, J. Christopher Brill, Linda-Brooke Thompson, Amanda Kelley, Casey Harris, Angus Rupert, *United States*.

S050

Management of Information for Decisions
 Chair(s): Yumi Asahi, *Japan*.
 Room: **SANTA ANITA B**

Analysis using purchasing data in Japan
 Ryota Morizumi, Yumi Asahi, *Japan*.

The Research of the Influence of Customer Perceived Value to Customer Satisfaction in Mobile Games
 Kailiang Zhang, *P.R. China*; Yumi Asahi, *Japan*.

An Analysis of the Synergistic Effect in the Advertisement - Between the Television Commercials and the Internet Commercials
 Tadahiro Yamada, Yumi Asahi, Katsuhiko Yuura, *Japan*.

The Effect of Timing when Introducing a Decision Aid in a Decision Support System for Supply Chain Management
 Nirrit Gavish, Hussein Nasereldin, *Israel*.

Conceptual Framework to Enrich Situation Awareness of Emergency Dispatchers
 Jessica O Souza, Leonardo Castro Botega, José Eduardo Santarem Segundo, Claudia Beatriz Berti, Márcio Roberto de Campos, Regina Borges De Araújo, *Brazil*.

Dealing with Data Deluge at National Funding Agencies: An Investigation of User Needs for Understanding and Managing Research Investments
 Mihaela Vorvoreanu, Ann McKenna, Zhihua Dong, Krishna Madhavan, *United States*.

Multi-criteria Fusion of Heterogeneous Information for Improving Situation Awareness on Emergency Management Systems
 Valdir Amancio Pereira Junior, Matheus Ferraroni Sanches, Leonardo Castro Botega, Jessica O Souza, Caio Saraiva Coneglian, Elvis Fusco, Márcio Roberto de Campos, *Brazil*.

EPCE S051

Cognition, emotions and driving
Chair(s): Maximilian Schwalm, Germany.

Room: **LOS CERRITOS**

Distraction and Driving Behavior by Presenting Information on an "Emissive Projection Display" compared to a Head-Up Display
Verena C. Knott, Stefan Demmelmair, Klaus Bengler, Germany.

Effects of Auditory and Tactile Warning on Drivers' Response to Hazard under Noisy Environment
Atsuo Murata, Takashi Kuroda, Japan.

An Attempt to Predict Driver's Drowsiness using Trend Analysis of Behavioral Measures
Atsuo Murata, Kohei Fukuda, Koh Yoshida, Japan.

An Attempt to Predict Point in Time with High Risk of Crash using Psychological Rating on Drowsiness and X-bar Chart of Behavioral Measures
Atsuo Murata, Kensuke Naitoh, Japan.

The Development of a Method to Assess the Effects of Traffic Situation and Time Pressure on Driver Information Preferences
Alexander H.O. Eriksson, United Kingdom; Ignacio Solis Marcos, Katja Kircher, Daniel Västfjäll, Sweden; Neville A. Stanton, United Kingdom.

Sorry, I'm Late; I'm not in the Mood: Negative Emotions Lengthen Driving Time
Myoungsoon Jeon, Jayde Croschere, United States.

Inverting Traditional Views on Human Task-Processing Behavior by Focusing on Abilities Instead of Disabilities – A Discussion on the Functional Situation Management of Drivers to Solve Demanding Situations
Maximilian Schwalm, Gudrun Mechthild Irmgard Voß, Stefan Ladwig, Germany.

UAHCI S052

Ludic Engagement Designs for All (LEDA)
Chair(s): Anthony Lewis Brooks, Eva Petersson Brooks, Denmark.

Room: **SAN GABRIEL A**

Resonance: an Interactive Tabletop Artwork for Co-located Group Rehabilitation and Play
Jonathan Duckworth, Nick Mumford, Karen Caeyenberghs, Ross Eldridge, Scott Mayson, Patrick Thomas, David Shum, Gavin Williams, Peter H. Wilson, Australia.

Ludic Educational Game Creation Tool: Teaching Schoolers Road Safety
Nikolaos Vidakis, Efthymios Syntychakis, Konstantinos Kalafatis, Eirini Christinaki, Greece; Georgios Triantafyllidis, Denmark.

Virtual Interactive Space (VIS): Creating a Unique Dynamic HCI Ludic Engaging Design (Apparatus/Method) for Human Performance and (Re)habilitation
Anthony Lewis Brooks, Denmark.

An Integrated Playful Music Learning Solution
Kristoffer Jensen, Søren Frimodt-Møller, Denmark.

Rehabilitation of Balance-Impaired Stroke Patients Through Audio-Visual Biofeedback
Cristina Gheorghe, Thomas Nissen, Daniel Christensen, Paula Epure, Anthony Lewis Brooks, Eva Petersson Brooks, Denmark.

Augmentation of Board Games using Smartphones
Artūras Kulšinskas, Catalin Balan, Nicholas Egede Bukdahl, Anthony Lewis Brooks, Denmark.

Jurojin: Designing a GPS Device for People Living With Dementia
Mark Palmer, Jude Hancock, United Kingdom.

Evaluating Intimacy and Ludic Engagement with a Musical Interactive Art Installation that Explores Remote Abstract Communication
Steven Gelineck, Denmark.

S053

New Models in Online Education: Equipping the Student of the Future - I
Chair(s): Robert Todd, United States.

Room: **SAN GABRIEL C**

The Promise and Pitfalls of Virtual Worlds to Enhance STEM Education Success: Summary of the GSAA BreakThru Model
Robert Todd, United States.

STEM Scalable Model for Enhancing Secondary and Postsecondary Student On-line Services
Noel Gregg, April Galyardt, Robert Todd, United States.

E-mentoring Supports for Improving the Persistence of Underrepresented Students in-On-line and Traditional Courses
Gerri Wolfe, Noel Gregg, United States.

Leveraging Virtual Worlds for Electronic Mentoring
Christopher Langston, Nathan Moon, Robert Todd, Noel Gregg, Gerri Wolfe, United States.

Determining the Efficacy of Communications Technologies and Practices to Broaden Participation in Education: Insights from a Theory of Change
Nathan Moon, Robert Todd, Noel Gregg, Christopher Langston, Gerri Wolfe, United States.

S054

Blended Learning Materials for Inclusive Education
Chair(s): ngo K. Bosse, Germany.

Room: **SAN GABRIEL B**

Criteria for Designing Blended Learning Materials for Inclusive Education: Perspectives of Teachers and Producers
Ingo K. Bosse, Germany.

Guidelines for Designing Accessible Digital (text) Books: the Italian Case
Eiseo Sciarretta, Andrea Ingrassio, Alessandra Carriero, Italy.

An Enriched EPub EBook for Screen Reader Users
Valentina Bartalesi, Barbara Leporini, Italy.

An Evaluation Method of Educational Computer Games for Deaf Children Based on Design Guidelines
Rafael Dos Passos Canteri, Laura Sánchez García, Tânia Amara Felipe, Diego Roberto Antunes, Carlos Eduardo Andrade Iatskiu, Brazil.

Enhancing Self-Motivation through Design of an Accessible Math App for Children with Special Needs
J. MacCalla, Jin Xu, Ayanna Howard, United States.

VAM S055

Virtual, Augmented and Mixed Reality

Environments for Experimentation and Training: VR, Virtual Worlds, Live
Chair(s): Lauren Reinerman-Jones, *United States.*

Room: **SANTA MONICA A**

Pilot Study for Telepresence with 3D-model in Mixed Reality
Sungchul Jung, Charles Hughes, *United States.*

Applying Research in the Cognitive Sciences to the Design and Delivery of Instruction in Virtual Reality Learning Environments
Martin Goodwin, Travis Wiltshire, Stephen Fiore, *United States.*

Theoretical Foundations for Developing Cybersecurity Training
Eric Ortiz, Lauren Reinerman-Jones, *United States.*

Advancing Interagency Collaboration through Constructive Simulation: Results from the 2015 Federal Consortium of Virtual Worlds Workshop
Barbara Truman, David Metcalf, *United States.*

Experimental Environments for Dismounted Human-Robot Multimodal Communications
Julian Abich IV, Daniel Barber, Lauren Reinerman-Jones, *United States.*

Analysis of Sociocultural Constructs Applicable to Blue Force Teams: Increasing Fidelity from Pencil and Paper and Video Tests to Virtual Environments
Dave Scribner, Peter Grazaitis, Asisat Animashaun, Jock Grynovicki, Lauren Reinerman-Jones, *United States.*

CCD S056

Cross-Cultural Design

From Dechnology to Humarts - III
Chair(s): Rungtai Lin, *Taiwan;* John G. Kreifeldt, *United States;* Po-Hsien Lin, *Taiwan.*

Room: **SANTA MONICA B**

From Dechnology to Humart: A Case Study of Applying Nature User Interface to the Interactive Rehabilitation Design
Jui-Ping Ma, Na-Ling Huang, Miao-Hsien Chuang, Rungtai Lin, *Taiwan.*

Humanism presented in Taiwan Cochin Ceramic Design
Huei-Mei Shih, *Taiwan.*

Emotion and Perception: A Case Study of Aesthetic Response to Frith's Narrative Painting "The Railway Station"
Po-Hsien Lin, Mo-Li Yeh, Jao-Hsun Tseng, *Taiwan.*

A Study of the Accessible Approach to Replace the Reservoir Silt Glaze with New Formula
Chi-Chang Lu, Po-Hsien Lin, *Taiwan.*

Analysis of Emotional Design and Cultural Product Narrative Communication Model
Miao-Hsien Chuang, Jui-Ping Ma, *Taiwan.*

Monster Design and Classifier Cognition
Larry Hong-lin Li, *Taiwan.*

AC S057

Augmented Cognition

Novel tools, techniques, and technologies
Chair(s): Santosh Mathan, *United States.*

Room: **PALOS VERDES**

Eye-tracking Technology for Estimation of Cognitive Load after Traumatic Brain Injury
Ashley Safford, Jessica Kegel, Jamie Hershaw, Doug Girard, Mark Ettenhofer, *United States.*

Augmenting Bioacoustic Cognition with Tangible User Interfaces
Isak Herman, Leonardo L. Impett, Patrick K.A. Wollner, Alan F. Blackwell, *United Kingdom.*

Time Dependent Effects of Transcranial Direct Current Stimulation and Caffeine on Vigilance Performance during Extended Wakefulness
R. Andy McKinley, Lindsey McIntire, Ryan Schilling, Charles Goodyear, Justin Nelson, *United States.*

The Effect of Limiting Trial Count in Context Aware BCIs: A Case Study with Language Model Assisted Spelling
Mohammad Moghadamfalahi, Paula Gonzalez-Navarro, Murat Akcakaya, Umut Orhan, Deniz Erdogan, *United States.*

Removal of Ocular Artifacts with the Utilization of Filter Banks
Umut Orhan, Santosh Mathan, *United States.*

Stability of a Type of Cross-cultural Emotion Modeling in Social Media
Monte F. Hancock, Chad Sessions, *United States;* Chloe Lo, *Hong Kong;* Shakeel Rajwani, Elijah Kresses, Cheryl Bleasdale, Dan Strohschein, *United States.*

DHM S058

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

Human Modeling of Traditional Arts and Technologies - I
Chair(s): Akihiko Goto, *Japan.*

Room: **SANTA BARBARA C**

Factor of Feeling "Hannari" from Kimono Image
Kumiko Komizo, Noriaki Kuwahara, Kazunari Morimoto, *Japan.*

Differences in How Long an Ikebana Work Lasts Depending on the Skill Used in Cutting Floral Materials
Yuki Ikenobo, *Japan;* Zelong Wang, *P.R. China;* Yusuke Shiraishi, Akihiko Goto, *Japan.*

Evaluation of KIMONO Clothes in Kyo-Yuzen-Zome using Image
Takashi Furukawa, Yuka Takai, Noriaki Kuwahara, Akihiko Goto, *Japan.*

Electromyography Measurement of Workers at the Second Lining Pounding Process for Hanging Scrolls
Yasuhiro Oka, Yuka Takai, Akihiko Goto, Hisanori Yuminaga, Kozo Oka, *Japan.*

Researching Sounds Generated During the Second Lining Pounding Process
Yasuhiro Oka, Yuka Takai, Akihiko Goto, Keisuke Ono, Kozo Oka, *Japan.*

DUXU S059	S060	S061	S062 continues...
<p>Ergonomics of human-system interaction Chair(s): Francisco Rebelo, Portugal; Michael Albers, United States.</p> <p>Room: SANTA BARBARA A</p>	<p>User experience and technology affordances - I Chair(s): Adriano Bernardo Renzi, Brazil.</p> <p>Room: SANTA BARBARA B</p>	<p>Experience Design for Behavior Change Chair(s): Marc Fabri, United Kingdom; Marientina Gotsis, United States.</p> <p>Room: SANTA ANITA C</p>	<p>New Approaches of User Experience Research Chair(s): Liqun Zhang, P.R. China.</p> <p>Room: BEAUDRY B</p>
<p>HARSim: Posterior Load Comparative Analysis Process Ricardo Dagge, Ernesto Vilar Filgueiras, Francisco Rebelo, Portugal.</p>	<p>Delphi Method to Explore Future Scenario Possibilities on Technology and HCI Adriano Bernardo Renzi, Sydney Fernandes De Freitas, Brazil.</p>	<p>Keep What You've Earned: Encouraging Sailors to Drink Responsibly Kristina Cook, Erin Brennan, Colleen P. Gray, Teha Kennard, United States.</p>	<p>The Conflict Resolution in Product Experience Design based on Evaporating Cloud of the Theory of Constraints Lu Jin, P.R. China.</p>
<p>Human-Computer Interaction in Bed Gustavo Desouza, Ernesto Vilar Filgueiras, Portugal.</p>	<p>Children's Mental Model as a Tool to Provide Innovation in Digital Products Adriana S. Chammas, Manuela Quaresma, Claudia Renata Mont'Alvão, Brazil.</p>	<p>Thinking with a new purpose: Lessons Learned from Teaching Design Thinking Skills to Creative Technology Students Marc Fabri, United Kingdom.</p>	<p>User Experience Research on the Rehabilitation System of Speech-impaired Children - A Case Study on Speech Training Product Wenyi Cai, Jun Liu, Qiang Liu, Ting Han, P.R. China.</p>
<p>Antique School Furniture, New Technological Features Needs Andreia Gomes, Ernesto Vilar Filgueiras, Luis Lavin, Portugal.</p>	<p>Rhetoric of Interaction: analysis of pathos Barbara Emanuel, Camila Rodrigues, Marcos Martins, Brazil.</p>	<p>A Feasibility Study of the Effect of Phone-Based Feedback of Other Commuters' Subjective Experiences on Driver Intentions to Change Tracy Ross, Andrea Burris, Luis Oliveira, Bronia Arnott, Vera Araujo-Soares, United Kingdom.</p>	<p>On Chinese Online P2P Lender's Model Building on the Macro, Micro and Industry Level Qiwei Liang, P.R. China.</p>
<p>Effects of Packages' Color as a Cue for Hazard-Related Perceptions: A Study using Virtual Reality Hande Ayanoğlu, Rita Boto, Júlia Teles, Emilia Duarte, Portugal.</p>	<p>Digital Collections: Analysis of Collaborative Platforms Camila Rodrigues, Barbara Emanuel, Marcos Martins, Brazil.</p>	<p>Emotion-Centered-Design (ECD): New Approach for Designing Interactions that Matter Eva De Lera, Spain.</p>	<p>Visualizing Group User Behaviors for Social Network Interaction Design Iteration ZhenYu Gu, Jia Ming Yu, Zhanwei Wu, Zhanxun Dong, P.R. China.</p>
<p>Affordances Feature on Package Design has Preference Effect on Content Jerry Lin, Cheng-Hung Lo, Taiwan.</p>	<p>Navigation in Interactive Visual Narrative for Children's Appbooks Andrea Bellotti, Pedro Biz, Washington DIas Lessa, Brazil.</p>	<p>Personal Museum - A New Museum that Focus on Emotional Relationship between People and Belongings Lei Guo, Yipei Shen, Shiqiang Yang, Huanbo Luan, P.R. China.</p>	<p>Research on the Correspondence between Designer End Expressions of Product Semantics with the Cognition of User End Liqun Zhang, P.R. China.</p>
<p>Infographics and Communicating Complex Information Michael J Albers, United States.</p>	<p>Towards a Requirements Catalogue for Prototyping Tools of Mobile User Interfaces Benjamin Bähr, Germany.</p> <p>Study on Event-Related Potential of Information Alarm in Monitoring Interface Jiang Shao, Chengqi Xue, Haiyan Wang, Wencheng Tang, Yafeng Niu, P.R. China.</p>		



DUXU S063

Designing the Public Digital Service Experience for the Creative Industries and Science

Chair(s): Heli Kautonen, Satu Miettinen, *Finland*.

Room: **SAN BERNARDINO**

The Theoretical Landscape of Service Design

Piia Ryttilahti, Satu Miettinen, Hanna-Riina Vuontisjärvi, *Finland*.

Exploring Digital Service Concepts for Healthy Lifestyles

Jonna Häkkinen, Ashley Colley, Virve Inget, Mira Alhonsuo, Juho Rantakari, *Finland*.

The Challenges and Opportunities of Designing National Digital Services for Cross-Border Use

Molly Schwartz, *United States*; Heli Kautonen, *Finland*.

Interactive Digital Storytelling & HCI Techniques Applied for Edutainment in Interactive Health Projects: Analysis of Two USC's Labyrinth Projects

Jorge I. Mora Fernandez, *Ecuador*.

Ads-On Games & Fake Brands: Interactions, Commercials and Playful Branding

Herlander A Elias, Ernesto Vilar Filgueiras, *Portugal*; Breno Carvalho, *Brazil*.

Distributed, Ambient and Pervasive Interactions

DAPI S064

Interaction of Everything for Ubiquitous Virtual Reality

Chair(s): Woontack Woo, *Korea*.

Room: **SANTA MONICA D**

Manseibashi Reminiscent Window: On-Site AR Exhibition System using Mobile Devices

Naoya Okada, Jun Imura, Takuji Narumi, Tomohiro Tanikawa, Michitaka Hirose, *Japan*.

SpreadView: A Multi-Touch Based Multiple Contents Visualization Method Composed of Aligned Layers

Joong Ho Lee, Hyoyoung Kim, Ji-Hyung Park, *Korea*.

Enhancing Facial Impression for Video Conference

Sungyeon Park, Heeseung Choi, Igjae Kim, *Korea*.

AR Coloring Jigsaw Puzzles with Texture Extraction and Auto-UV Mapping Algorithm

Youngho Lee, *Korea*.

Activity Context Integration in Mobile Computing Environments

Yooseo Oh, *Korea*.

Brain Signal for Smart Offices

Ghada Al-Hudhud, Noha Al-rajhi, Nouf Alonaizi, Aysha Al-mahmoud, Latifah Almazrou, Dalal bin Muribah, *Saudi Arabia*.

Human Aspects of Information Security, Privacy and Trust

HAS S065

The Future of Voting: Integrating Usability and Security

Chair(s): Mary Frances Theofanos, Shanee Dawkins, *United States*.

Room: **SAN FERNANDO**

Personalized Voting: The Intersection of Cloud and Mobility

Shanee Dawkins, Sharon Laskowski, *United States*.

Users' Mental Models for Three End-To-End Voting Systems: Helios, Prêt à Voter, and Scantegrity II

Claudia Z Acemyan, Philip Kortum, Mike D. Byrne, Dan S. Wallach, *United States*.

Poll Workers and Election Integrity: Security as if People Mattered

Whitney Quesenbery, Dana Chisnell, *United States*.

Framework for Cloud Usability

Brian Stanton, Mary Frances Theofanos, Karuna Joshi, *United States*.

Televoting: Secure, Overseas Voting

Chris Crawford, Naja Mack, Wanda Eugene, Juan E. Gilbert, *United States*.

Security Implications for Personal Assistive Technology in Voting

Sarah J. Swierenga, Rebecca Zantjer, James E Jackson, Jennifer Ismirle, Stephen Blosser, Graham L Pierce, *United States*.

An Extension and Validation of the Task-Technology Fit: A Case of a Mobile Phone Voting System

Noluntu Mpekoa, Aaron Bere, *South Africa*.

HCI in Business

HCIB S066

HCI Research in Business - III

Chair(s): Fiona Fui-Hoon Nah, *United States*.

Room: **SAN PEDRO**

The Effect of Structural Holes on Social Capital and Individual Performance within Social Media Networks

Yuan Long, Roberto Mejias, *United States*.

The Mediating Role of Perceived Security: an Empirical Study of Mobile Wallet Adoption in USA

Norman Shaw, *Canada*.

Exergames for Older Adults: Towards Sustainable and Transferrable Health Benefits

Young Anna Argyris, Taiwoo Park, *United States*.

Vision 2020: The Future of Software Quality Management & Impacts on Global User Acceptance

Robin Suzanne Poston, Ashley L Calvert, *United States*.

Effects of the Use of Points, Leaderboards and Badges on In-game Purchases of Virtual Goods

Fiona Fui-Hoon Nah, Lakshmi Sushma Daggubati, Amith Tarigonda, Raghu Vinay Nuvvula, Ofir Turel, *United States*.

Identifying Appraisal Expressions of Online Reviews in Chinese

Pei Yin, Hongwei Wang, Wei Wang, *P.R. China*.

Early-stage Software Start-up Survival: the Effects of Managerial Actions on Firm Performance

Yunfei Shi, Dongming Xu, Iris Vessey, *Australia*.

WEDNESDAY 13:30 - 15:30

LCT S067

Open and Social Environments for e-Learning and Education Assessment - I

Chair(s): David Fonseca, *Spain*.

Room: **LOS FELIZ**

Inspecting Quality of Games Designed for Learning Programming

Tihomir Orehovački, Snježana Babić, *Croatia*.

Math and Motion: A (Coursera) MOOC to Rethink Math Assessment

Patricia Salinas, Eliud Quintero, Xavier Sanchez, *Mexico*.

Using Augmented Reality Technology in Assisting English Learning for Primary School Students

Salin Boonbrahm, Charlee Kaewrat, Poonpong Boonbrahm, *Thailand*.

A Study to Activate Communication by Using SNS on Mobile Phone -An Essay Lesson at the Elementary School-

Yuko Hiramatsu, Atsushi Ito, Koutaro Inagaki, Fumie Shimada, Fumihiro Sato, *Japan*.

Feedback in Computer-Based Concept Mapping Tools: A Short Review

Francisco J. Álvarez-Montero, Hector Jacobo-García, Eneyda Rocha-Ruiz, *Mexico*.

G-NETS – Gesture-based Nursing Educational Training Support System

Jen-Wei Chang, Chang-Fang Huang, Robert L. Good, Chun-Chia Lee, *Taiwan*.

ITAP S068

Technology Innovations for Older People: Acceptance and Usage

Chair(s): Alan Hoi Shou Chan, *Hong Kong*.

Room: **BEAUDRY A**

Useful or Easy-to-Use? Knowing what Older People like about Near Field Communication Technology

Pei-Lee Teh, Pervaiz K. Ahmed, *Malaysia*; Alan Hoi Shou Chan, *Hong Kong*; Soon-Nyeon Cheong, Wen-Jiun Yap, *Malaysia*.

The Time Reduction Design method for cognitive assist technology

Junji Ohyama, Nana Itoh, Kenji Kurakata, Ken Sagawa, *Japan*.

Acceptance of ICTs by Older Adults: A Review of Recent Studies

Qi Ma, Ke Chen, Alan Hoi Shou Chan, *Hong Kong*; Pei-Lee Teh, *Malaysia*.

Older Adults and the Appropriation and Disappropriation of Smartphones

Natalie Pang, Samantha Vu, Xue Zhang, Schubert Foo, *Singapore*.

Adopting Scenario-based Design to Increase the Acceptance of Technology Innovations for Older People

Diego Compagna, *Germany*; Florian Kohlbacher, *P.R. China*.

Developing a Framework for Effective Communication with Older People

Ying Jiang, Hua Dong, Shu Yuan, *P.R. China*.

Developing New Gesture Design Mode in Smartphone Use for Elders

Ming Hong Wang, Yu-Chi Chang, Shuo-Fang Liu, Hsin-Hsi Lai, *Taiwan*.

Human-Computer Interaction

HCI S069

Interacting with smartwatches and wearable devices
Chair(s): DongHee Shin, *Korea*.

Room: **AVALON**

GyroTouch: Wrist Gyroscope with a Multi-Touch Display
Francisco Raul Ortega, Armando Barreto, Naphtali Rishe, Nonnarit O-Larnnithipong, Malek Adjouadi, Fatemeh Abyarjoo, *United States*.

UniWatch - Some Approaches Derived from UniGlyph to allow Text Input on Tiny Devices such as Connected Watches
Franck Poirier, *France*; Mohammed Belatar, *Morocco*.

Effect of Button Size and Location when Pointing with Index Finger on Smartwatch
Kiyotaka Hara, Takeshi Umezawa, Noritaka Osawa, *Japan*.

Health Information Tailoring and Data Privacy in a Smart watch as a Preventive Health Tool - Qualitative Study of Users' Perceptions and Attitudes
HongSuk Yoon, DongHee Shin, *Korea*.

Information Select and Transfer between Touch Panel and Wearable Devices Using Human Body Communication
Yuto Kondo, Shin Takahashi, Jiro Tanaka, *Japan*.

aHead: Considering the Head Position in a Multi-Sensory Setup of Wearables to Recognize Everyday Activities with Intelligent Sensor Fusions
Marian Haescher, John Trimpop, Denys J.C. Matthies, Gerald Bieber, Bodo Urban, Thomas Kirste, *Germany*.

Human Interface and the Management of Information

HIMI S070

Display and Communication of Information
Chair(s): Kim-Phuong Vu, *United States*.

Room: **SANTA ANITA A**

The Usability of Magnification Methods: A Comparative Study Between Screen Magnifiers and Responsive Web Design
Elyse C. Hallett, Blake Arnsdorff, John Sweet, Zach Roberts, Wayne Dick, Tom Jewett, Kim-Phuong Vu, *United States*.

Warning Users of Phishing Attacks with a Google Chrome Extension
Jing Chen, Weining Yang, Aiping Xiong, Ninghui Li, Robert Proctor, *United States*.

A Method for Calculating Air Traffic Controller Communication Complexity
Zach Roberts, Blake Arnsdorff, James Cunningham, Dan Chiappe, *United States*.

Using Eye Movements to Test Assumptions of the Situation Present Assessment Method
Lindsay K Sturre, Dan Chiappe, Kim-Phuong Vu, Thomas Z Strybel, *United States*.

Differences in Driver Distractibility Between Monolingual and Bilingual Drivers
Isis Chong, Thomas Z Strybel, *United States*.

Learning to Manage NextGen Environments: Do Student Controllers Prefer to Use Datalink or Voice?
Alice Winter, John Sweet, Yuri Trujillo, Adriana Miramontes, Sam Curtis, Karen Sanchez, Kim-Phuong Vu, Thomas Z Strybel, *United States*.

A Team Hiring Solution based on Graph-based Modelling of Human Resource Entities
Avinash Sharma, Jyotirmaya Mahapatra, Asmita Metrewar, Abhishek Tripathi, Partha Dutta, *India*.

S071

User-oriented technologies and services
Chair(s): Hiroyuki Miki, *Japan*.

Room: **SANTA ANITA B**

Recognition of Written Cues System for Users of General Paper Media
Daiki Yamaji, Jiro Tanaka, *Japan*.

Proposal of a Data Presentation Technique using Four-frame Cartoon Expression for a LifeLog System
Takashi Yoshino, Iori Osada, *Japan*.

Travel-information Sharing System using Tweets with Location Information
Junko Itou, Keiichiro Nakamura, Jun Munemori, *Japan*.

Searching for Information: Comparing Text vs. Visual Search with Newspapers Websites
Victor M. Gonzalez, Jesus Garcia-Manilla, Barbara P Muro, *Mexico*.

Managing References by Filing and Tagging - An Exploratory Study of Personal Information Management by Social Scientists
Pierre Fastrez, Jerry Jacques, *Belgium*.

Annotated Domain Ontologies for the Visualization of Heterogeneous Manufacturing Data
Rebekka Alm, Mario Aehnelt, Steffen Hadlak, Bodo Urban, *Germany*.

Engineering Psychology and Cognitive Ergonomics

EPCE S072

New paradigms in Cognitive Ergonomics
Chair(s): Paul M. Salmon, *Australia*.

Room: **LOS CERRITOS**

"How do I save it?" Usability Evaluation of a Systems Theory-Based Incident Reporting Software Prototype by Novice End Users
Eryn Grant, Natassia Goode, Paul M. Salmon, Michael G. Lenne, Bridie Scott-Parker, Caroline F. Finch, *Australia*.

The Elephant in the Room: Normal Performance and Accident Analysis
Paul M. Salmon, Natassia Goode, Erin Stevens, *Australia*; Guy Walker, Neville A. Stanton, *United Kingdom*.

What the Death Star can tell us about System Safety
Guy Walker, *United Kingdom*; Paul M. Salmon, *Australia*; Neville A. Stanton, *United Kingdom*.

It's Dark in There: Using Systems Analysis to Investigate Trust and Engagement in Dark Web Forums
David Lacey, Paul M. Salmon, *Australia*.

New Knowledge for Built Environments: Exploring Urban Design from Socio-Technical System Perspectives
Nicholas J. Stevens, Paul M. Salmon, *Australia*.

Seeing Officiating as a Sociotechnical System - the Case for Applying Distributed Situation Awareness to Officials in Sport
Timothy J. Neville, Paul M. Salmon, *Australia*.

Modeling Situation Awareness on Alarm Displays in Nuclear Power Plants
Sheau-Farn Max Liang, Chih-Wei Chen, *Taiwan*.

WEDNESDAY 16:00 - 18:00

UAHCI S073

Inclusive Interface design for adaptive multimodal Interactions in Automotive, Aerospace and emergency communications
Chair(s): Patrick M. Langdon, *United Kingdom.*

Room: **SAN GABRIEL A**

Assessing the Inclusivity of Digital Interfaces - a Proposed Method
Mike Bradley, Patrick M. Langdon, P. John Clarkson, *United Kingdom.*

State-of-the-Art and Future Concepts for Interaction in Aircraft Cockpits
Peter Thomas, Pradipta Biswas, Patrick M. Langdon, *United Kingdom.*

Effect of Road Conditions on Gaze-Control Interface in an Automotive Environment
Pradipta Biswas, *United Kingdom;* Varun Dutt, *India.*

A Virtual Reality Driving Environment for Training Safe Gaze Patterns: Application in Individuals with ASD
Joshua W Wade, Dayi Bian, Jing Fan, Lian Zhang, Amy Swanson, *United States;* Medha Sarkar, *U.S. Virgin Islands;* Amy Weitlauf, Zachary Warren, Nilanjan Sarkar, *United States.*

Intelligent Intent-aware Touchscreen Systems Using Gesture Tracking with Endpoint Prediction
Bashar I. Ahmad, Patrick M. Langdon, Robert Hardy, Simon J. Godsill, *United Kingdom.*

Creating inclusive HMI Concepts for Future Cars Using Visual Scenario Storyboards through Design Ethnography
Merih Kunur, Patrick M. Langdon, Mike Bradley, Jo-Anne Bichard, Emilie Glazer, Fionnuala Doran, P. John Clarkson, Jean Jacques Loeillet, *United Kingdom.*

SweetBuildingGreeter: A Demonstration of Persuasive Technology for Public Space
Ted Selker, *United States;* Shih-Yuan Yu, Che-Wei Liang, Jane Hsu, *Taiwan.*

S074

Usetopia, Fact or Fiction: Can Usability, Accessibility and User Experience Produce the Perfect Interface?
Chair(s): Jon A. Sanford, *United States.*

Room: **SAN GABRIEL B**

Universal Design (UD) Guidelines for Interactive Mobile Voting Interfaces for Older Adults
Ljilja Ruzic Kascak, Seunghyun "Tina" Lee, Yilin Elaine Liu, Jon A. Sanford, *United States.*

The Bridge Connecting Theory to Practice - A Case Study of Universal Design Process
Yilin Elaine Liu, Seunghyun "Tina" Lee, Ljilja Ruzic Kascak, Jon A. Sanford, *United States.*

Generating User Interfaces for Users with Disabilities Using Libraries of XSLT, UIML, and Stylesheet Files
Lawrence Henschen, Julia Lee, *United States;* Ning Li, Xia Hou, *P.R. China.*

On the Need for Assistance in HTML5 Web Authoring Systems
Julia Lee, Lawrence Henschen, *United States.*

Speech Enabled Ontology Graph Navigation and Editing
Dimitris Spiliotopoulos, Athanasios Dalianis, Dimitris Koryzis, *Greece.*

Accessibility in E-commerce Tools: an Analysis of the Optical Inclusion of the Deaf
Maria Eduarda De Araújo Cardoso, Daniela De Freitas Guilhermino, Rafaella Aline Lopes Da Silva Neitzel, Laura Sánchez García, Roberto Elero Junior, *Brazil.*

S075

New Models in Online Education: Equipping the Student of the Future - II
Chair(s): Robert Todd, *United States.*

Room: **SAN GABRIEL C**

Using Computational Resources on Bilingual Deaf Literacy: an analysis of benefits, perspectives and challenges
Marta Angelika Montiel Ferreira, Juliana Bueno, Rodrigo Bonacin, *Brazil.*

Enhancing Students' Motivation to Learn Software Engineering Programming Techniques: a Collaborative and Social Interaction Approach
Ricardo Rodrigues Nunes, *Brazil;* Daniela Pedrosa, Benjamim Fonseca, Hugo Paredes, José Cravino, Leonel Morgado, Paulo Martins, *Portugal.*

The Evolution of an Online Approach to Preparing Young Students with Disabilities for College and Careers
Clark Shingledecker, Jennifer Barga, *United States.*

Preparing All Students for 21st Century College and Careers
Margo Izzo, Alexa Murray, Andrew Buck, Victor Johnson, Eliseo Jimenez, *United States.*

How Competency-Based Education can fulfill the Promise of Educational Technology
Sally M Johnstone, David E. Leasure, *United States.*

AfterNext: Decoding the Future of Higher Education in 2030
Myk Garn, *United States.*

CCD S076 continues...

Methodology of User Study
Chair(s): P. L. Patrick Rau, *P.R. China.*

Room: **SANTA MONICA B**

Design of Vehicle-to-Vehicle Communication System for Chinese and German Drivers
Xiang Ji, *P.R. China;* Lukas Haferkamp, *Germany;* Chieh Cheng, *Taiwan;* Muanphet Charunratanavisan, *Thailand;* Andreas Neuhaus, *Switzerland;* Na Sun, P. L. Patrick Rau, *P.R. China.*

How Online Social Network and Wearable Devices Enhance Exercise Well-being of Chinese Females?
Hao Chen, *P.R. China;* Ting-Yu Tony Lin, *Taiwan;* Qiaochu Mu, P. L. Patrick Rau, *P.R. China.*

Comparison of User Responses to English and Arabic Emotion Elicitation Video Clips
Nawal Muhammed Al-Mutairi, *Saudi Arabia;* Sharifa Alghowinem, *Australia;* Areej Al-Wabil, *Saudi Arabia.*

Exploring Socioeconomic and Sociocultural Implications of ICT Use: An Ethnographic Study of Indigenous People in Malaysia
Norazlinawati Walid, Emma Nuraihan Mior Ibrahim, *Malaysia;* Chee Siang Ang, *United Kingdom;* Norlaila Md Noor, *Malaysia.*

Cultural Capital at Work in Facebook Users' Selection of Different Languages
Jieyu Wang, Satarupa Joardar, *United States.*



CCD S077

From Dechnology to Humarts - IV

Chair(s): Rungtai Lin, *Taiwan*;
John G. Kreifeldt, *United States*;
Po-Hsien Lin, *Taiwan*.

Room: **SANTA MONICA C**

Pilot Study on the Application of Light-Absorbing Fabric in Sport Fashion

Chiui Hsu, Po-Hsien Lin, *Taiwan*.

Paper Catalog and Digital Catalog - Reading Behaviors of College Students in Taiwan

Yu-Ju Lin, Hui-Yun Yen, Chiui Hsu, *Taiwan*; Yige Jin, *P.R. China*; Po-Hsien Lin, *Taiwan*.

A Pilot Study of Exploring the Relationship between Dechnology Product and Product Personality

Wen-Zhong Su, Hsi-Yen Lin, Chi-Ying Hung, Pei-Hua Hung, *Taiwan*.

Human Factors Perspective of Dancing Props Design: A Case Study of "Feiyan's Dancing on Palms"

Jao-Hsun Tseng, Po-Hsien Lin, *Taiwan*.

From Design to Humanity – A Case Study of Costumer Value toward Dechnology Products

Chi-Ying Hung, Pei-Hua Hung, Wen-Zhong Su, Hsi-Yen Lin, *Taiwan*.

SCSM S078

Social network analysis

Chair(s): Tomas Kincl, *Czech Republic*.

Room: **SANTA MONICA D**

Language-Independent Sentiment Analysis with Surrounding Context Extension

Tomas Kincl, Michal Novak, Jiri Pribil, *Czech Republic*; Pavel Strach, *Austria*.

Analysis of Online Social Networks Posts to Investigate Suspects Using SEMCON

Zenun Kastrati, Ali Shariq Imran, Sule Yildirim-Yayilgan, Fisnik Dalipi, *Norway*.

Hashtag Popularity on Twitter: Analyzing Co-occurrence of Multiple Hashtags

Nargis Pervin, Tuan Quang Phan, Anindya Datta, *Singapore*; Hideaki Takeda, Fujio Toriumi, *Japan*.

Analysing Yammer Usage Pattern in the Context of Social Collaborative Activity Performance by Knowledge Workers

Jordan Hall, Bee Bee Chua, *Australia*.

Simulation-based Prediction and Analysis of Collective Emotional States

Charlotte Gerritsen, Ward R.J. Van Breda, *Netherlands*.

Providing ICT Support to Promote Communities' Emotional Balance

Rener Baffa Da Silva, Junia Coutinho Anacleto, *Brazil*.

Social Computing and Social Media

AC S079

Measuring and quantifying cognition

Chair(s): Lauren Reinerman-Jones, Anna Skinner, *United States*.

Room: **PALOS VERDES**

Objective-Analytical Measures of Workload – the Third Pillar of Workload Triangulation?

Christina Rusnock, Brett Borghetti, Ian McQuaid, *United States*.

Workload is Multidimensional, not Unitary: What Now?

Gerald Matthews, Lauren Reinerman-Jones, Ryan Wohleber, Jinchao Lin, Joe Mercado, Julian Abich IV, *United States*.

Sensitive, Diagnostic and Multifaceted Mental Workload Classifier (PHYSIOPRINT)

Djordje Popovic, Maja Stikic, Theodore Rosenthal, David Klyde, Thomas Schnell, *United States*.

The Quantified Self

Clementina Russo, *United States*.

Field-Theoretic Modeling Method for Emotional Context in Social Media: Theory and Case Study

Monte F. Hancock, Shakeel Rajwani, *United States*; Chloe Lo, *Hong Kong*; Suraj Sood, Elijah Kresses, Cheryl Bleasdale, Nathan Dunkel, Elise Do, Gareth Rees, Jared Steirs, Christopher Romero, Dan Strohschein, Keith Powell, Rob French, Nicholas Fedosenko, *United States*; Chris C. Casimir, *Canada*.

Augmented Cognition

DHM S080

Human Modeling of Traditional Arts and Technologies - II

Chair(s): Akihiko Goto, *Japan*.

Room: **SANTA BARBARA C**

The Relationship between Mechanical Properties and the Method Technique of GFRP Plate by Hand Lay-up Method: Effect of the Workers Experience

Masakazu Migaki, Keisuke Ono, Ryo Takematsu, Yusaku Mochizuki, *Japan*; Eijutsu Ko, *P.R. China*; Daiki Ichikawa, Hiroyuki Hamada, *Japan*.

Process Analysis of Manufacturing of Sewing Scissors by All Forging Process and Understanding of Its Sharpness

Yasuko Kitajima, Kazuki Kito, Masakazu Migaki, Kanji Matsumuro, Yasuhiko Murata, Hiroyuki Hamada, *Japan*.

A Study of the Tacit Knowledge on the Design of Kimono Patterns from Japanese Painting

Masashi Kano, Hiroyuki Akaji, Noriaki Kuwahara, Hiroyuki Hamada, *Japan*.

Process Analysis of Kyo Karakami Manufacturing

Seiji Senda, Erika Suzuki, Tetsuo Kikuchi, Mitsunori Suda, Yuka Takai, *Japan*.

Research on the Performance of Three Tea Whisks of "The way of Tea" with Different Experience

Soutatsu Kanazawa, Tomoko Ota, *Japan*; Zelong Wang, *P.R. China*; Akihiro Tada, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

WEDNESDAY 16:00 - 18:00

DUXU S081	S082	S083	S084	continues...
<p>Designing wearable technologies Chair(s): Patricia Flanagan, <i>Hong Kong</i>.</p> <p>Room: SANTA BARBARA A</p>	<p>Usability and Interaction Design in Software, Web-based systems, Mobile and Natural Interaction Chair(s): Cristina Gena, <i>Italy</i>.</p> <p>Room: SAN PEDRO</p>	<p>Designing and Measuring the User Experience for Diverse User Groups Chair(s): Kerem Rizvanoğlu, <i>Turkey</i>.</p> <p>Room: SANTA ANITA C</p>	<p>Engaging Technology for Sustainable Behavior Chair(s): Beth Karlin, <i>United States</i>.</p> <p>Room: SAN BERNARDINO</p>	
<p>Soft Computation In The Public Sphere: Enhancing Social Dynamics With Wearable Networks Raune Frankjaer, <i>Germany</i>.</p>	<p>Engaging Experience with Physical Activity Tracking Products Armağan Kuru, <i>Turkey</i>; Jodi Forlizzi, <i>United States</i>.</p>	<p>Haptic Exploration Patterns in Virtual Line-Graph Comprehension Ozge Alacam, <i>Germany</i>; Cengiz Acartürk, <i>Turkey</i>; Christopher Habel, <i>Germany</i>.</p>	<p>A Toolkit for SE for Sustainability - A Design Fiction Birgit Penzenstadler, <i>United States</i>.</p>	
<p>Transcending Disciplinary, Cultural and National Boundaries: Emergent Technologies, New Education Landscape and The Cloud Workshop Project Rafael Gomez, <i>Australia</i>; Patricia Flanagan, <i>Hong Kong</i>; Rebekah Davis, <i>Australia</i>.</p>	<p>User Interfaces for Cyber-Physical Systems: Challenges and Possible Approaches Volker Paelke, Carsten Röcker, <i>Germany</i>.</p>	<p>The Turkish Central Doctor Rendezvous System Under Spotlight: A User Study with Turkish Senior Users Edibe Betül Karbay, Kerem Rizvanoğlu, <i>Turkey</i>.</p>	<p>Motivators of Energy Reduction Behavioral Intentions: Influences of Technology, Personality Characteristics, Perceptions, and Behavior Barriers June A. Flora, Banny Banerjee, <i>United States</i>.</p>	
<p>Commiticator: Enhancing Non-Verbal Communication by Means of Magnetic Vision Anne Wiedau, Daniel Gilgen, Raune Frankjaer, Tristan Goerlich, Michael Wiedau, <i>Germany</i>.</p>	<p>Usability Evaluation of Kinect-Based System for Ballet Movements Milka Trajkova, Mexhid Ferati, <i>Former Yugoslav Republic of Macedonia</i>.</p>	<p>Social Media Interactions and the Use of Third-Party Management Applications on Effectiveness and Perception of Information Çakır Aker, Özgürol Öztürk, <i>Turkey</i>.</p>	<p>OBDEnergy: Making Metrics Meaningful in Eco-driving Feedback Sumayyah Ahmed, Angela Sanguinetti, <i>United States</i>.</p>	
<p>Designing a Vibrotactile Language for a Wearable Vest Ann Morrison, Hendrik Knoche, <i>Denmark</i>; Cristina Manresa-Yee, <i>Spain</i>.</p>	<p>CubeMate: a New Communication Device as Non-Verbal Interface in a Shared Space Roberta Grimaldi, Valentina Cipelli, Carlo Maria Medaglia, <i>Italy</i>.</p>	<p>Participatory Explorations on a Location Based Urban Information System Ozge Genç, Damla Çay, Asım Evren Yantaç, <i>Turkey</i>.</p>	<p>Diffusion of Feedback: Perceptions and Adoption of Devices in the Residential Market Beth Karlin, Angela Sanguinetti, Nora Davis, Kristen Bendanna, Kristen Holdsworth, Jessie Baker, David Kirkby, Dan Stokols, <i>United States</i>.</p>	
<p>Digital Craftsmanship - The Making of Incunabula, a fully 3D printed Wearable Dress Tobias Klein, <i>Hong Kong</i>.</p>	<p>Robot-Era Project: Preliminary Results on the System Usability Roberta Bevilacqua, Elisa Felici, Fiorella Marcellini, <i>Italy</i>; Sebastian Glende, Susann Klemcke, Isabel Conrad, <i>Germany</i>; Raffaele Esposito, Filippo Cavallo, Paolo Dario, <i>Italy</i>.</p>	<p>Integrating a Cognitive Modelling Framework into the Design Process of Touchscreen User Interfaces Patrick K.A. Wollner, Patrick M. Langdon, P. John Clarkson, <i>United Kingdom</i>.</p>	<p>Learning from Hourly Household Energy Consumption: Extracting, Visualizing and Interpreting Household Smart Meter Data Sam Borgeson, June A. Flora, Jung Suk Kwac, Chin-Woo Tan, Ram Rajagopol, <i>United States</i>.</p>	
<p>PostureMonitor: Real-Time IMU Wearable Technology to Foster Poise and Health Fatemeh Abyarjoo, Nonnarit O-Larnnithipong, Sudarat Tangnimitchok, Francisco Raul Ortega, Armando Barreto, <i>United States</i>.</p>	<p>Hidden Presence: Sensing Occupancy and Extracting Value from Occupancy Data Larissa Suzuki, Peter Cooper, Theo Tryfonas, George Oikonomou, <i>United Kingdom</i>.</p>	<p>A Usability Study with Children on an Online Educational Platform Tuba Uğraş, Orhan Sener, <i>Turkey</i>.</p>	<p>Scenario Analysis as a Tool for Informing the Design of Behaviour Change Interventions Luis Oliveira, Martin Maguire, Val Mitchell, Andrew May, <i>United Kingdom</i>.</p>	



DUXU S085

User experience and technology affordances - II
Chair(s): Adriano Bernardo Renzi, *Brazil.*

Room: **SANTA BARBARA B**

Startup Rio: User Experience and Startups
Adriano Bernardo Renzi, Adriana S. Chammas, Luiz C. Agner, *Brazil*; Jacob Greenspan, *Israel.*

Evaluating Interaction Design in Brazilian Tablet Journalism: Gestural Interfaces and Affordance Communicability
Luiz C. Agner, Adriano Bernardo Renzi, Natanne Viegas, Priscila Buares, Vitor Zanfagnini, *Brazil.*

Change News Reading Habit in the Information Age and Digital Mobile Devices
Juliana Nunes Barbosa, Manuela Quaresma, *Brazil.*

Elements and Properties of User Experience in Cloud Computing Documentation Platform According to Smart Device Screen Size Changes: Focus on Google Docs and Naver Office
Min Kyung Kang, Sung Woo Kim, *Korea.*

Semantic Research of Military Icons based on Behavioral Experiments and Eye-Tracking Experiments
Xiao Jiao Chen, Chengqi Xue, Yafeng Niu, Haiyan Wang, Jing Zhang, Jiang Shao, *P.R. China.*

Study on Operating Clearance Measurement of Some Connectors by Using Motion Capture
Hao Du, Li Wang, Li Ding, Yulin Xu, Changhua Jiang, *P.R. China.*

Applying Human Centered Design Process for Designing Air Traffic Control Interfaces
Satoru Inoue, Kazuhiko Yamazaki, Hajime Hirako, Toshiya Sasaki, *Japan.*

HAS S086

Innovative Risk Management Methodologies and Tools for Critical Infrastructures (CII)
Chair(s): Despoina Polemi, *Greece.*

Room: **SAN FERNANDO**

Using Logical Error Detection in Software Controlling Remote-Terminal Units to Predict Critical Information Infrastructures Failures
Georgios Stergiopoulos, *Greece*; Marianthi Theocharidou, *Italy*; Dimitris Gritzalis, *Greece.*

Risk Modeling and Analysis of Interdependencies of Critical Infrastructures Using Colored Timed Petri Nets
Chrysovalandis Agathangelou, Chrysis Georgiou, Ileana Papailiou, Anna Philippou, Loukas Pouis, Georgios Tertytchny, Despina Vakana, *Cyprus.*

Towards a Successful Exercise Implementation – A Case Study of Exercise Methodologies
George Makrodimitris, Christos Douligeris, *Greece.*

CYSM: An Innovative Physical/Cyber Security Management System for Ports
Spyros Papastergiou, Despoina Polemi, Athanasios Karantjias, *Greece.*

Business and Threat Analysis of Ports' Supply Chain Services
Spyros Papastergiou, Despoina Polemi, Ioannis Papagianopoulos, *Greece.*

XACML Privacy Policy Editor for Critical Infrastructures
Nils Ulltveit-Moe, Henrik Nergaard, Terje Gjøsæter, *Norway*; Jennifer Betts, *United Kingdom.*

LCT S087

Game-based learning
Chair(s): Isabela Gasparini, *Brazil.*

Room: **SANTA MONICA A**

Good Newbie or Poor Newbie? Determinants of Video Game Skill Acquisition at an Early Stage
Kevin Koban, Benny Liebold, Peter Ohler, *Germany.*

H-Treasure Hunt: A Location and Object-Based Serious Game for Cultural Heritage Learning at a Historic Site
Hayun Kim, Sungeun An, Sangeun Keum, Woontack Woo, *Korea.*

Developing an Educational Game for Art Education - Gesture Recognition-based Performance Guidance for Mozart's Opera Magic Flute
Hyung Sook Kim, Su Hak Oh, Yong Hyun Park, *Korea.*

Game Rethoric: Interaction Design Model of Persuasive Learning for Serious Games
Zarwina Yusoff, Amirrudin Kamsin, *Malaysia.*

Gamification in e-Learning Systems: a Conceptual Model to Engage Students and its Application in an Adaptive e-Learning System
Ana Carolina Tomé Klock, Lucas Felipe Da Cunha, Mayco Farias De Carvalho, Brayan Eduardo Rosa, Andressa Jaqueline Anton, Isabela Gasparini, *Brazil.*

S088

Open and Social Environments for e-Learning and Education Assessment - II
Chair(s): David Fonseca, *Spain.*

Room: **LOS FELIZ**

Contextualization of Archaeological Findings using Virtual Worlds. Issues on Design and Implementation of a Multiuser Enabled Virtual Museum
Luis Antonio Hernández Ibáñez, Viviana Barneche Naya, *Spain.*

Evolution of the Conversation and Knowledge Acquisition in Social Networks related to a MOOC Course
Francisco García-Peñalvo, Juan Cruz-Benito, Oriol Borrás Gené, Ángel Fidalgo Blanco, *Spain.*

A Knowledge Management System to Classify Social Educational Resources within a Subject using Teamwork Techniques
María Luisa Séin-Echaluze, Ángel Fidalgo Blanco, Francisco García-Peñalvo, Miguel Ángel Conde, *Spain.*

Exploring Student Interactions: Learning Analytics Tools for Student Tracking
Miguel Ángel Conde, Angel Hernández-García, Francisco García-Peñalvo, María Luisa Séin-Echaluze, *Spain.*

From Formal to Informal 3D Learning - Assessment of users in the education
David Fonseca, Ernest Redondo, Francesc Valls, *Spain*; Oswaldo Gutiérrez, *Mexico.*

E-Learning and Serious Games: New trends in Architectural and Urban Design Education
Francesc Valls, Ernest Redondo, David Fonseca, *Spain.*

Generating Quizzes for History Learning based on Wikipedia Articles
Yoshihiro Tamura, Yutaka Takase, Yuki Hayashi, Yukiko Nakano, *Japan.*

Human Aspects of Information Security, Privacy and Trust

Learning and Collaboration Technologies

ITAP	S089
	<p>Facilitating Independent Aging in the Communities: The Role of HCI in technologies promoting empowerment of older adults</p> <p>Chair(s): George Demiris, <i>United States</i>; Gregorij Kurillo, <i>United States</i>.</p> <p>Room: BEAUDRY A</p>
	<p>Considerations in Evaluating Technologies in Memory Care Units</p> <p>Amanda Lazar, Hilaire Thompson, George Demiris, <i>United States</i>.</p>
	<p>Designing an Indoor Navigation System for Elderly People's Capabilities</p> <p>Mathias Källström, Sondre J. Berdal, Suhas Govind Joshi, <i>Norway</i>.</p>
	<p>More Light! Improving Well-being for Persons suffering from Dementia</p> <p>Charlotte A. Sust, <i>Germany</i>; Peter Dehoff, Christina Hallwirth-Spörk, <i>Austria</i>; Dieter Lang, Dieter Lorenz, <i>Germany</i>.</p>
	<p>Developing Mobile Application Design of Virtual Pets for Caring for the Elderly</p> <p>Hsiu Ching Laura Hsieh, <i>Taiwan</i>.</p>
	<p>Multi-disciplinary Design and In-home Evaluation of Kinect-Based Exercise Coaching System for Elderly</p> <p>Gregorij Kurillo, Ferda Ofli, Jennifer Marcoe, Paul Gorman, Holly Jimison, Misha Pavel, Ruzena Bajcsy, <i>United States</i>.</p>
	<p>Evaluation of Complex Distributed Multimodal Applications: Evaluating a TeleRehabilitation System When It Really Matters</p> <p>Carlos Pereira, Nuno Almeida, Ana Isabel Martins, Samuel Silva, Ana Filipa Rosa, Miguel Oliveira e Silva, António J. S. Teixeira, <i>Portugal</i>.</p>
	<p>A Slow Game Design for Elderly with Their Family and Friends</p> <p>Yi-Sin Wu, Teng-Wen Chang, <i>Taiwan</i>.</p>

S090
<p>Design and development for and with elderly</p> <p>Chair(s): Marie Sjölander, <i>Sweden</i>.</p> <p>Room: BEAUDRY B</p>
<p>The Benefits of Involving Older People in the Design Process</p> <p>Britt Östlund, <i>Sweden</i>.</p>
<p>A Living Lab Method for Innovations to Increase Quality of Life for Elderly - A Pilot Case</p> <p>Isabella Scandurra, Madeleine Blusi, Rolf Dalin, <i>Sweden</i>.</p>
<p>Effects of Using Care Professionals in the Development of Social Technology for Elderly</p> <p>Marie Sjölander, Isabella Scandurra, <i>Sweden</i>.</p>
<p>How Measuring an Older Person's Walking Pattern can Help Keep them Mobile - 'Personalised healthcare for mobility'</p> <p>Diana Hodgins, Ian McCarthy, <i>United Kingdom</i>.</p>
<p>Development of Caricature Robots for Interaction with Older Adults</p> <p>Jeffrey Sebastian, Chih-Yin Tai, <i>Taiwan</i>; Kim Lindholm, <i>Finland</i>; Yeh-Liang Hsu, <i>Taiwan</i>.</p>
<p>Play for the Elderly - Effect Studies of Playful Technology</p> <p>Henrik Hautop Lund, <i>Denmark</i>.</p>
<p>Values and Ethics in Making Emerging Technologies Work for Older People</p> <p>Caroline Holland, <i>United Kingdom</i>.</p>



Human-Computer Interaction

HCI S091

Grand HCI Challenges for the Next 10 Years
Chair(s): Simone Diniz Junqueira Barbosa, Roberto Pereira, Clodis Boscaroli, *Brazil*.

Room: **AVALON**

Cultural Issues in HCI: Challenges and Opportunities
Luciana C. de C Salgado, Roberto Pereira, Isabela Gasparini, *Brazil*.

Challenges for Human-Data Interaction – A Semiotic Perspective
Heiko Hornung, Roberto Pereira, M. Cecilia C. Baranauskas, *Brazil*; Kecheng Liu, *United Kingdom*.

Defining and Optimizing User Interfaces Information Complexity for AI Methods Application in HCI
Maxim Bakaev, Tatiana Avdeenko, *Russia*.

How to Join Theoretical Concepts, Industry Needs and Innovative Technologies in HCI Courses? The Big Challenge of Teaching HCI
Clodis Boscaroli, Silvia Amelia Bim, Milene S. Silveira, Simone Diniz Junqueira Barbosa, *Brazil*.

Prospecting HCI Challenges for Extreme Poverty Communities: Redefining and Optimizing User Experiences with Technology
Daniel Almeida Chagas, Camila Loiola Brito Maia, Elizabeth Furtado, Carlos R. Maia de Carvalho, *Brazil*.

Post-Mortem Digital Legacy: Possibilities in HCI
Cristiano Maciel, Vinicius Carvalho Pereira, *Brazil*.

S092

Communication Enhancement
Chair(s): Tomohito Yamamoto, Michiya Yamamoto, *Japan*.

Room: **EMERALD BAY**

Stage of Subconscious Interaction for Forming Communication Relationship
Takafumi Sakamoto, Yugo Takeuchi, *Japan*.

How Do Japanese People Return a Greeting with a Bow?
Mamiko Sakata, Noriko Suzuki, Kana Shirai, Haruka Shoda, Michiya Yamamoto, Takeshi Sugio, *Japan*.

Analysis of Eye Hand Interaction in Drawing Figure and Letter ~For the Development of Handwrite-Training Device~
Yumiko Muto, Takeshi Muto, *Japan*.

Development of Chat System Added with Visualized Unconscious Non-verbal Information
Masashi Okubo, Haruna Tsujii, *Japan*.

Development of Tidy-up Promotion System by Anthropomorphication of Shared Space
Takayoshi Kitamura, Tiange Jin, Motoki Urayama, Hirotake Ishii, Hiroshi Shimoda, *Japan*.

Study of Uninterruptible Duration Prediction Based on PC Operation
Hokuto Iga, Takahiro Tanaka, Kazuaki Aoki, Kinya Fujita, *Japan*.

Synchronization between Utterance Rhythm and Body Movement in a Two-Person Greeting
Kenta Kinemuchi, Hiroyuki Kobayashi, Tomohito Yamamoto, *Japan*.

Human Interface and the Management of Information

HIMI S093

Design Information Usage
Chair(s): Yen-Yu Kang, Wen-Chih Chang, *Taiwan*.

Room: **SANTA ANITA A**

This Study of Hand Anthropometry and Touchscreen Size of Smartphones
Yu-Cheng Lin, Ming-Hung Lin, *Taiwan*.

Affective Responses of Interpolated Sketches
Kun-An Hsiao, *Taiwan*.

An Observation of Human Comprehension through Wood Joints Assembly of a Cube Puzzle
Thongthai Wongwichai, Takamitsu Tanaka, *Japan*.

Next Step of Cultural and Creative Products - Embracing Users Creativity
Chia-Ling Chang, Ming-Hsuan Hsieh, *Taiwan*.

A Study of the Feature of the Lovely Product Forms
Wen-Chih Chang, Ching-An Hsu, *Taiwan*.

Considering a New Nanbu Fuurin Design that Play a Healing Sound – Including Innovations in Appearance and Texture, and Continually Improving—
Ying Zhang, *P.R. China*; Takamitsu Tanaka, *Japan*.

Engineering Psychology and Cognitive Ergonomics

EPCE S094

Doing More with Less
Chair(s): John Huddleston, *United Kingdom*.

Room: **LOS CERRITOS**

How to Make the Most of your Human: Design Considerations for Single Pilot Operations
Paul C. Schutte, *United States*.

On the Development of a Monitoring Test for the Selection of Aviation Operators
Dietrich Grasshoff, Catrin Hasse, Carmen Bruder, Hinnerk Eißfeldt, *Germany*.

Effectiveness of Advanced Collaboration Tools on Crew Communication in Reduced Crew Operations
Sarah V. Ligda, Ute Fischer, Kathleen Mosier, Michael Matessa, Vernol Battiste, Walter W. Johnson, *United States*.

Bridging the Gap between Desktop Research and Full Flight Simulators for Human Factors Research
Matthias Oberhauser, Daniel Dreyer, *Germany*; Sébastien Mamestier, Thomas Convard, Daniel Bandow, *United States*; Axel Hillebrand, *Germany*.

Dual Pilot and Single Pilot Operations – Hierarchical Task Decomposition Analysis of Doing More With Less
John Huddleston, Don Harris, Dale Richards, Steve Scott, Rod Sears, *United Kingdom*.

An Integrated Framework for Crew - Centric Flight Operations
Nick McDonald, Alison Kay, Paul Liston, Rabea Morrison, Margaret Ryan, *Ireland*.

UAHCI S095

eInclusion - systematic reviews of results, outcomes, impacts; perspectives?

Chair(s): Ana Isabel Paraguay, Brazil; Hugo Paredes, Portugal.

Room: **SAN GABRIEL A**

(Digital) Social Innovation through Public Internet Access Points

Christoph Kaletka, Bastian Pelka, Germany.

Video Accessibility on the Most Accessed Websites - A Case Study Regarding Visual Disabilities

Johana M. Rosas-Villena, Bruno Ramos, Rudinei Goularte, Renata P.M. Fortes, Brazil.

Mediating Asymmetries in Family Communication: Supporting the eInclusion of Older Adults

Francisco J. Gutierrez, Sergio Ochoa, Chile; Julita Vassileva, Canada.

A TUI-Based Storytelling for Promoting Inclusion in the Preschool Classroom -Preliminary Results on Acceptance

Julian Esteban Gutierrez Posada, Heiko Hornung, M. Cecilia Martins, M. Cecilia C. Baranauskas, Brazil.

CanIHelp: a platform for inclusive collaboration

Hugo Paredes, Hugo Fernandes, André Sousa, Portugal; Renata P.M. Fortes, Fernando Koch, Brazil; Vitor Filipe, João Barroso, Portugal.

Multimodal Videogames for the Cognition of People who are Blind: Trends and Issues

Jaime Sánchez, Chile; Ticianne De Gois Ribeiro Darin, Rossana M.C. Andrade, Brazil.

S096

Interaction design for universal access

Chair(s): Simeon Keates, United Kingdom.

Room: **SAN GABRIEL B**

A Haptic Knob as an Innovative User Interface for Visually-Impaired

Maura Mengoni, Lorenzo Cavalieri, Damiano Raponi, Italy.

A WYSIWYG Editor to Support Accessible Web Content Production

Hedi Carlos Minin, Javier Jiménez Alemán, Carolina Sacramento, Daniela Gorski Trevisan, Brazil.

Designing Accessible Games with the VERITAS Framework: Lessons Learned from Game Designers

Michael James Scott, Fotios Spyridonis, Gheorghita Ghinea, United Kingdom.

Applying Universal Design Principles to Themes for Wearables

Vladimir Tomberg, Estonia; Trenton Schultz, Norway; Sebastian Kelle, Germany.

Seeing, Hearing and Feeling through the Body: The Emerging Science of Human-Somatosensory Interactions

Maria Karam, Patrick M. Langdon, United Kingdom.

Improving Accessibility Design on Touchscreens

Shuang Xu, United States.

Improving Touchscreen Accessibility in Self-Service Technology

Selina Jokisuu, Mike McKenna, Andrew W.D. Smith, Phil Day, United Kingdom.

S097

Ambient Technologies for Immersive Interfaces

Chair(s): Guido Kempter, Walter Ritter, Austria.

Room: **SAN GABRIEL C**

Subjective Ratings of Biological Effective Light in Seminar Rooms and How to Handle Small Sample Sizes of Ordinal Data

Manuel Herbert Winkler, Herbert Plischke, Werner Jensch, Germany.

Visualizing Database-Performance through Shape, Reflecting the Development Opportunities of Radar Charts

Verena Lechner, Karl-Heinz Weidmann, Austria.

User-Acceptance of Latency in Touch Interactions

Walter Ritter, Guido Kempter, Tobias Werner, Austria.

Design and Development of Multimodal Applications: A Vision on Key Issues and Methods

Samuel Silva, Nuno Almeida, Carlos Pereira, Ana Isabel Martins, Ana Filipa Rosa, Miguel Oliveira e Silva, António J. S. Teixeira, Portugal.

Automatic Analysis of Speech and Acoustic Events for Ambient Assisted Living

Alexey A. Karpov, Alexander Ronzhin, Irina Kipyatkova, Russia.

Socio-Technical Barriers Induced by the Design of Emerging Technologies: A Perspective Situated in iTV Applications

Samuel B Buchdid, Roberto Pereira, Heiko Hornung, M. Cecilia C. Baranauskas, Brazil.

Social Networks: Technological and Social Aspects of Social Network-mediated Interaction of Elderly People

Laura Burzagli, Paolo Baronti, Lorenzo Di Fonzo, Italy.

VAMR S098

Human-Agent Teaming and Agent Transparency

Chair(s): Jessie Chen, United States.

Room: **SANTA MONICA A**

Displays for Effective Human-Agent Teaming: The Role of Information Availability and Attention Management

Maia Cook, Cory Rieth, Mary Ngo, United States.

Displays for Effective Human-Agent Teaming: Evaluating Attention Management with Computational Models

Cory Rieth, Maia Cook, Mary Ngo, United States.

Exploring the Implications of Virtual Human Research for Human-Robot Teams

Jonathan Gratch, Susan Hill, Louis-Philippe Morency, David Pynadath, David Traum, United States.

Human-Computer Collaboration in Adaptive Supervisory Control and Function Allocation of Autonomous System Teams

Robert Gutzwiller, Douglas Lange, John Reeder, Rob Morris, Olinda Rodas, United States.

Intelligent Agents for Virtual Simulation of Human-Robot Interaction

Ning Wang, David Pynadath, Unnikrishnan K.V., Santosh Shankar, Chirag Merchant, United States.

A Mark-Up Language and Interpreter for Interactive Scenes for Embodied Conversational Agents

David Novick, Mario Gutierrez, Ivan Gris, Diego Rivera, United States.

Enhancing Intuitive Decision Making: An Overview

Joseph Cohn, United States.



Cross-Cultural Design

Augmented Cognition

CCD S099

Culture and communication in Design
Chair(s): Pilsung Choe, *Qatar*.

Room: **SANTA MONICA B**

The effect of tactile feedback on mental workload during the interaction with a smartphone
Peter Rasche, Alexander Mertens, Christopher M. Schlick, *Germany*; Pilsung Choe, *Qatar*.

Driving Safety considered User Interface of a Smartphone: An Experimental Comparison
Sanaz Motamedi, *United States*; Mahdi Hasheminezhad, *Iran*; Pilsung Choe, *Qatar*.

Dramatic Sketches: A New Interaction Design Resource for Communicating Contextual Factors
Fuad ALI EL-Qirem, *Jordan*; Gilbert Cockton, *United Kingdom*.

The Impact of Natural Utilization of Traditional Chinese Cultural Elements on the User Experience in Mobile Interaction Design
Tian Lei, Xu Liu, Lei Wu, *P.R. China*; Tianjian Chen, *United States*; Yuhui Wang, Luyao Xiong, Shuaili Wei, *P.R. China*.

Preliminary Study: Influence of Cultural Differences on the Innovation Process between Chinese and Germans
Liuxing Tsao, *P.R. China*; Philip Alexander Behr-Heyder, *Germany*; Liang Ma, *P.R. China*.

Co-design: an Investigation through Interviewing Experts in Europe
Shu Yuan, Hua Dong, Zi Chen, *P.R. China*.

S100

Designing the Human City and Social Innovation
Chair(s): Zhiyong Fu, *P.R. China*.

Room: **SANTA MONICA C**

Defining the Middle Ground: A Comprehensive Approach to the Planning, Design and Implementation of Smart City Operating Systems
Christopher Grant Kirwan, *P.R. China*.

Cultural Identification and Innovation – A Study on the Design of Exhibition and Dissemination System for A City’s Cultural Heritage under the New Media Context
Lie Zhang, Wen Zhang, *P.R. China*.

Defining Design Opportunities of Healthcare in the Perspective of Digital Social Innovation
Dongjuan Xiao, Miaosen Gong, Xueliang Li, *P.R. China*.

Review on Interaction Design for Social Context in Public Spaces
Xu Lin, *P.R. China*; Jun Hu, Matthias Rauterberg, *Netherlands*.

Interact through Your Data: Collective Immersive Experience Design for Indoor Exercises
Xu Lin, *P.R. China*; Linkai Tao, Bin Yu, Yongyan Guo, Jun Hu, *Netherlands*.

Designing Wearable Device-Based Product and Service Ecosystem
Xiaohua Sun, Yongqi Lou, Tong Li, Qi Wang, *P.R. China*.

The Research and Practice Framework for Designing the Digital Social Innovation
Zhiyong Fu, Zirui Huang, *P.R. China*.

AC S101

Authoring Tools and Instructional Strategies for Adaptive Training
Chair(s): Robert A. Sottilare, *United States*.

Room: **PALOS VERDES**

Authoring Intelligent Tutoring Systems Using Human Computation: Designing for Intrinsic Motivation
Andrew M. Olney, Whitney L. Cade, *United States*.

A Personalized GIFT: Recommendations for Authoring Personalization in the Generalized Intelligent Framework for Tutoring
Anne M. Sinatra, *United States*.

Authoring Tools for Adaptive Training – An Overview of System Types and Taxonomy for Classification
Keith Brawner, *United States*.

Augmented Cognition on the Run: Considerations for the Design and Authoring of Mobile Tutoring Systems
Robert A. Sottilare, *United States*.

From Desktop to Cloud: Collaborative Authoring for Intelligent Tutoring
Charles Ragusa, *United States*.

S102

Augmented Cognition for Daily Living
Chair(s): Martha E. Crosby, *United States*; Paula Alexandra Silva, *Ireland*.

Room: **SANTA ANITA B**

How Mobile Phones Affect the Sustainability of the Work/life Balance of their Users
Edward Peter Greenwood White, Andrew Thatcher, *South Africa*.

The Use of Eye tracking in Software Development
Bonita Sharif, Timothy Shaffer, *United States*.

Technology-supported Health Measures and Goal-tracking for Older Adults in Everyday Living
Blaine Reeder, Angela Richard, Martha E. Crosby, *United States*.

Setting a Privacy and Security Comfort Zone in the Internet of Things
Barbara Endicott-Popovsky, Scott David, Martha E. Crosby, *United States*.

Contact Activity Visualization for Seniors
Ana Lúcia Almeida, Micael Carreira, Joaquim A. Jorge, Daniel Gonçalves, *Portugal*.

Breathing Life into CPR Training
Dominic Lamboy, Patricia Donohue, *United States*.



Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

DHM S103

Utilizing Traditional Wisdom and Technologies in Industry - III

Chair(s): Hiroyuki Hamada, *Japan*.

Room: **SANTA BARBARA A**

Comparison of Braiding Skills between Expert and Non-Experts by Eye's Movement Measurement

Kontawat Chottikampon, *Thailand*; Suchaline Mathurosemontri, Hitoshi Marui, Porakoch Sirisuwan, Akihiko Goto, Tadashi Uozumi, Miyako Inoda, Makiko Tada, Hiroyuki Nishimoto, Hiroyuki Hamada, *Japan*.

Comparison Knitting Skills between Experts and Non-Experts by Measurement of the Arm Movement

Kontawat Chottikampon, *Thailand*; Shunyu Tang, *P.R. China*; Suchaline Mathurosemontri, Porakoch Sirisuwan, Miyako Inoda, Hiroyuki Nishimoto, Hiroyuki Hamada, *Japan*.

Expert vs. Elementary Skill Comparison and Process Analysis in VaRTM-Manufactured Carbon Fiber Reinforced Composites

Yasunari Kuratani, Kentaro Hase, Takahiro Hosomi, Tomoe Kawazu, Tadashi Uozumi, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Effects of Spray Gun Handling of Automobile Repair on Carrier of Car Mechanic

Shigeru Ikemoto, Kenta Morimoto, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

EMG Activity of Arms Muscles and Body Movement during Chucking in Lathe between Expert and Non-Expert

Porakoch Sirisuwan, Hisanori Yuminaga, Takashi Yoshikawa, Hiroyuki Hamada, *Japan*.

A Study on Learning Effects of Marking with Highlighter Pen

Hiroki Nishimura, Noriaki Kuwahara, *Japan*.

DUXU S104

Design, Ergonomics and Usability - I

Chair(s): Marcelo Soares, *Brazil*.

Room: **SANTA BARBARA C**

Brazilian Research Panorama on Information Ergonomics and Graphic Design

Luis C Paschoarelli, João Silva, Danilo C Silva, Gabriel Bonfim, Fausto Medola, Erica Neves, *Brazil*.

Experiences, Problems and Solutions in Computer Usage by Subjects with Tetraplegia

Fausto Medola, Jamille Lanutti, Claudia Bentim, Adrieli Sardella, Ana Elisa Franchini, Luis C Paschoarelli, *Brazil*.

Drivers and Automation: a Study about Cultural and Behavioral Influence in the Interaction with Driver Assistants

Rafael Cirino Gonçalves, Manuela Quaresma, *Brazil*.

The Interaction with Smartphones in the Brazilian Driving Context

Manuela Quaresma, Rafael Cirino Gonçalves, Jhonnata Oliveira, Marcela Rodrigues, *Brazil*.

Combining Principles of Experience, Traditional Heuristics and Industry Guidelines to Evaluate Multimodal Digital Artifacts

Fabio Campos, Rui M. Belfort, Walquir Fernandes, Edvar Neto, Walter F.M. Correia, *Brazil*.

A Living Labs Approach for Usability Testing of Ambient Assisted Living Technologies

Miguel Sales Dias, Elisângela Vilar, Filipe Sousa, Ana Vasconcelos, Fernando Pinto, Nuno Saldanha, Sara Eloy, *Portugal*.

S105

Big Data, Complex Systems and DUXU

Chair(s): Hashim Iqbal Chunpir, *Germany*.

Room: **SANTA BARBARA B**

Significance of Line Length for Tablet PC Users

Waqas Ali Sahito, *Pakistan*; Hashim Iqbal Chunpir, *Germany*; Zahid Hussain, Syed Raheel Hassan, *Pakistan*; Frederik Schulte, *Germany*.

Synchronized Data Management and its Integration into a Graphical User Interface for Archaeological Related Disciplines

Daniel Kaltenthaler, Johannes-Y Lohrer, Peer Kröger, Christiaan H. Van der Meijden, Henriette Obermaier, *Germany*.

Supply Chain Risk Management in the Era of Big Data

Yingjie Fan, Leonard Heilig, Stefan Voß, *Germany*.

Building Cloud-based Scientific Workflows Made Easy: A Remote Sensing Application

Sofiane Bendoukha, Daniel Moldt, *Germany*; Hayat Bendoukha, *Algeria*.

Collaborative Tangible Interface (CoTI) for Complex Decision Support System

Salma Aldawood, Faisal Aleissa, *Saudi Arabia*; Almaha A Almalki, *United States*; Tarfah Alrashed, Tariq Alhindi, Riyadh Alnasser, Mohammad Hadrhawi, Anas Alfaris, Areej Al-Wabil, *Saudi Arabia*.

Evolution of e-Research: From Infrastructure Development to Service Orientation

Hashim Iqbal Chunpir, Thomas Ludwig, *Germany*; Dean Williams, *United States*.

S106

Women in DUXU - III

Chair(s): Javed Anjum Sheikh, *Pakistan*.

Room: **SANTA ANITA C**

A Study of Conversation Support System Between the Elderly Person and Young Adults by Using Facial Expression Analysis

Miyuki Iwamoto, Noriaki Kuwahara, Kazunari Morimoto, *Japan*.

Closing the Gender Divide in Tech: Challenges and Achievements in Vogue

Linda Lim, *Australia*; Yuanqiong (Kathy) Wang, *United States*.

Verification of Stereotype on Women: Observing Gender Difference on UX of Wearable Device

Hee Jae Amy Hwang, Jung Min Lee, Da Young Ju, *Korea*.

Cultural Effects on Metaphor Design

Muhammad Waqas Azeem, Arslan Tariq, Farzan Javed Sheikh, Muhammad Aadil Butt, Iqra Tariq, Hafiza Maimoona Shahid, *Pakistan*.

The Creative Process in Digital Design: Towards an Understanding of Women's Approach

Virginia Tiradentes Souto, Paula C.L.A. Faria, Fátima Aparecida Dos Santos, *Brazil*.

New Research Methods for Media and Cognition Experiment Course

Yi Yang, Shengjin Wang, Liangrui Peng, *P.R. China*.



DAPI S107

Prototyping Ubiquitous Computing Environments

Chair(s): José Creissac Campos, José Luís Silva, *Portugal*.

Room: **SANTA MONICA D**

Evaluating Ubiquitous Computing Environments using 3D Simulation

Arlindo Santos, Helena Rodrigues, *Portugal*.

Developing and Evaluating two Gestural-Based Virtual Environment Navigation Methods for Large Displays

Paulo Dias, João Parracho, João Cardoso, Beatriz Quintino Ferreira, Carlos Ferreira, Beatriz Sousa Santos, *Portugal*.

From Collaborative Scenario Recording to Smart Room Assistance Models

Gregor Buchholz, Peter Forbrig, *Germany*.

Consumer Concerns about Smart Meters

Rani Yesudas, Roger Clarke, *Australia*.

Immersiveness of Ubiquitous Computing Environments

Prototypes: A case study
Tiago Abade, José Creissac Campos, Rui Moreira, Carlos C. L. Silva, José Luís Silva, *Portugal*.

Distributable Interface Design for Web Applications

Gianni Fenu, Lucio Davide Spano, *Italy*.

HAS S108

Operational Trustworthiness Enabling Technologies

Chair(s): Ioannis G. Askoxylakis, *Greece*.

Room: **SAN FERNANDO**

Usable Trust: Grasping Trust Dynamics for Online Security as a Service

Shenja Van der Graaf, Wim Vanobberghen, *Belgium*; Michalis Kanakakis, Costas Kalogiros, *Greece*.

Profit-Maximizing Trustworthiness Level of Composite Systems

Costas Kalogiros, Michalis Kanakakis, *Greece*; Shenja Van der Graaf, Wim Vanobberghen, *Belgium*.

From V2X to Control2Trust - Why Trust and Control are Major Attributes in Vehicle2x Technologies

Teresa Schmidt, Ralf Philippen, Martina Ziefle, *Germany*.

RT-SPDM: Real-time Security, Privacy & Dependability Management of Heterogeneous Systems

Konstantinos Fysarakis, George Hatzivasilis, Ioannis G. Askoxylakis, Charalampos Manifavas, *Greece*.

SafetyPIN: Secure PIN Entry through Eye Tracking

Mythreya Seetharama, Volker Paelke, Carsten Röcker, *Germany*.

HCIB S109

HCI in Digital Social and Business Environments

Chair(s): Roderick L. Lee, *United States*; Andreas Auinger, *Austria*.

Room: **SAN PEDRO**

An Interactive Assessment Instrument to Improve the Process for Mobile Service Application Innovation

Karen E Carey, *Ireland*; Markus Helfert, *Austria*.

Social Media Analytics with Facebook - The Case of Higher Education Institutions

Claudia Brauer, Edward W.N. Bernroider, *Austria*.

An Empirical Study of User Decision Making Behavior in E-commerce

Dongning Yan, *Italy*; Li Chen, *P.R. China*.

Dishonest Behaviour at Self-service Checkouts

Susan Creighton, Graham Johnson, Paul Robertson, Jan Law, Andrea Szymkowiak, *United Kingdom*.

Why Innovations of Capital Market IT Systems Fail to Diffuse into the General Public?

Sapumal Ahangama, Danny Chiang Choon Poo, *Singapore*.

S110

Human-Computer Interface and its Applications in Analytics

Chair(s): Hanmin Jung, Myunggwon Hwang, *Korea*.

Room: **SAN BERNARDINO**

Low Ambiguity First Algorithm: A New Approach to Knowledge-based Word Sense Disambiguation

Dongjin Choi, Myunggwon Hwang, Byeongkyu Ko, Sicheon You, Pankoo Kim, *Korea*.

Design on the BPEL Engine Generator for adding New Functions

Donggyu Kwak, Jongsun Choi, Jeayoung Choi, *Korea*; Hoon Ko, *Czech Republic*.

Design of Marketing Scenario Planning Based on Business Big Data Analysis

Seungkyun Hong, Sungho Shin, Young-Min Kim, Choong-Nyoung Seon, Jung ho Um, Sa-kwang Song, *Korea*.

A data visualization system for considering relationships among scientific entities

Jangwon Gim, Yunji Jang, Yeonghun Chae, Hanmin Jung, Do-Heon Jeong, *Korea*.

Applying the Rules of Image Construction to Graphical Representation of Infection Prevention Contextual Data in a Communicable Format

Valeriya Kettelhut, Trevor Van Schooneveld, James McClay, Ann L. Fruhling, *United States*.

LCT	S111
<p>Learning science and programming Chair(s): To be announced.</p>	
<p>Room: LOS FELIZ</p>	
<p>A Tablet-based Lego Mindstorms Programming Environment for Children Stephanie Ludi, <i>United States</i>.</p>	
<p>Supporting the Development of Computational Thinking: A Robotic Platform Controlled by Smartphone Henrique Reinaldo Sarmento, Cibele A.S. Reis, Vinicius Zaramella, Leonelo D.A. Almeida, Cesar A. Tacla, <i>Brazil</i>.</p>	
<p>Enhancing the Learning Success of Engineering Students by Virtual Experiments Max Hoffmann, Lana Plumanns, Laura Lenz, Katharina Schuster, Tobias Meisen, Sabina Jeschke, <i>Germany</i>.</p>	
<p>Out of Classroom Instruction in the Flipped Classroom: the Tough Task of Engaging the Students Evangelia Triantafyllou, Olga Timcenko, <i>Denmark</i>.</p>	
<p>Audio Cues: Can Sound be Worth a Hundred Words? Jatin Bajaj, Akash Harlalka, Ankit Kumar, Ravi Mokashi Punekar, Keyur Sorathia, Om D. Deshmukh, Kuldeep Yadav, <i>India</i></p>	

ITAP	S112
<p>Aging and Technology Acceptance - I Chair(s): Jia Zhou, <i>P.R. China</i>.</p>	
<p>Room: BEAUDRY A</p>	
<p>Capturing Older People's Cognitive Capability Data for Design Shan Huang, Hua Dong, <i>P.R. China</i>.</p>	
<p>The Design of Pain Management and Creative Service for Older Adults with Chronic Disease Wang-Chin Tsai, Chia-Ling Chang, Hsuan Lin, <i>Taiwan</i>.</p>	
<p>An Appraisal-Based Approach to the Stigma of Walker-Use Andrew R McNeill, Lynne Coventry, <i>United Kingdom</i>.</p>	
<p>Designing Tangible Interactions for Aged Users though Interactive Technology Prototyping Wei Liu, Yanrui Qu, <i>P.R. China</i>.</p>	
<p>Older Adults' Usage of Web Pages: Investigating Effects of Information Structure on Performance Jincheng Huang, Jia Zhou, Huilin Wang, <i>P.R. China</i>.</p>	
<p>CogniWin – A Virtual Assistance System for Older Adults at Work Sten Hanke, <i>Austria</i>; Hugo Meinedo, David Portugal, <i>Portugal</i>; Marios Belk, <i>Cyprus</i>; João Quintas, <i>Portugal</i>; Eleni Christodoulou, <i>Cyprus</i>; Miroslav Sili, <i>Austria</i>; Miguel Sales Dias, <i>Portugal</i>; George Samaras, <i>Cyprus</i>.</p>	
<p>Elderly and Tablets: Considerations and Suggestions about the Design of Proper Applications Eliseo Sciarretta, Andrea Ingrosso, Valentina Volpi, Antonio Opromolla, Roberta Grimaldi, <i>Italy</i>.</p>	

S113
<p>Emerging IT for Aging Drivers: Boon or Bane Chair(s): Lisa J. Molnar, <i>United States</i>.</p>
<p>Room: BEAUDRY B</p>
<p>The Progression to Automated Vehicles: Implications for Older Drivers Lisa J. Molnar, David W. Eby, <i>United States</i>.</p>
<p>Towards Best Practice in Human Machine Interface for Older Drivers: A Review of Current Design Guidelines Judith Charlton, Sjaan Koppel, Kristie Young, <i>Australia</i>.</p>
<p>Use of Emerging IT to Advance Understanding of Older Driver Behavior Lidia Kostyniuk, Shan Bao, <i>United States</i>.</p>
<p>Acceptance of Advanced Vehicle Technologies: A Cross-Generational Survey Jon Antin, <i>United States</i>.</p>
<p>Tech-savvy vs. Technophobe? The Influence of Technology Use on Perceptions and Uptake of Advanced Automotive Features among Older Drivers Jessica Gish, Brenda Vrkljan, Amanda Grenier, Antonio Paez, <i>Canada</i>.</p>

HCI S114

HCI in Public Transport
 Chair(s): Heidi Krömker, *Germany*.

Room: **AVALON**

Using Diary Studies to Evaluate Railway Dispatching Software
 Isabel Schütz, Anselmo Stelzer, Andreas Oetting, *Germany*.

User Requirements for Intermodal Mobility Applications and Acceptance of Operating Concepts
 Ulrike Stopka, René Pessier, Katrin Fischer, *Germany*.

Towards Paperless Mobility Information in Public Transport
 Stephan Hörold, Cindy Mayas, Heidi Krömker, *Germany*.

Context Elicitation for User-Centered Context-Aware Systems in Public Transport
 Heidi Krömker, Tobias Wienken, *Germany*.

Workflow-based Passenger Information for Public Transport
 Cindy Mayas, Stephan Hörold, Heidi Krömker, *Germany*.

Implications for Design of Personal Mobility Devices with Balance-Based Natural User Interfaces
 Aleksander Rem, Suhas Govind Joshi, *Norway*.

S115

Living Among Screens
 Chair(s): Bertrand David, *France*.

Room: **EMERALD BAY**

Living among Screens in the City
 Bertrand David, Rene Chalou, *France*.

A Mashup-Based Application for the Smart City Problematic
 Abdelghani Atrouche, Djilali Idoughi, *Algeria*; Bertrand David, *France*.

Heuristic Evaluation in Information Visualization Using Three Sets of Heuristics: an Exploratory Study
 Beatriz Sousa Santos, Beatriz Quintino Ferreira, Paulo Dias, *Portugal*.

Graphic Visualization of Probabilistic Traffic/Trajectory Predictions in Mobile Applications. A First Prototype and Evaluations for General Aviation Purposes
 Giuseppe Frau, Francesca De Crescenzo, Damiano Taurino, *Italy*.

Instantaneous Human-Computer Interactions: Button Causes and Screen Effects
 Kjetil Raaen, Ragnhild Eg, *Norway*.

S116

Haptic, flexible and bending user interfaces
 Chair(s): Ji-Hyung Park, *Korea*.

Room: **SANTA MONICA C**

StringWeaver: Research on A framework with An Alterable Physical Interface for Generative Art
 Yunshui Jin, Zhejun Liu, *P.R. China*.

GUIs with Haptic Interfaces
 M. Arda Aydin, Nergiz E. Cagiltay, Erol Ozcelik, Emre Tuner, Hilal Sahin, Gul Tokdemir, *Turkey*.

Mouse Augmentation using a Malleable Mouse Pad
 Takuro Kuribara, Buntarou Shizuki, Jiro Tanaka, *Japan*.

Preliminary Study to Determine a "User-Friendly" Bending Method: Comparison between Bending and Touch Interaction
 Bo Kyung Huh, Hae Youn Joung, SeungHyen Im, Heesun Kim, GyuHyun Kwon, Ji-Hyung Park, *Korea*.

Personalization through Personification: Factors that Influence Personification of Handheld Devices
 Jung Min Lee, Da Young Ju, *Korea*.

Musician Fantasies of Dialectical Interaction: Mixed-Initiative Interaction and the Open Work
 Leonardo L. Impett, Isak Herman, Patrick K.A. Wollner, Alan F. Blackwell, *United Kingdom*.

HIMI S117

Displaying and structuring information
 Chair(s): Chen Ling, *United States*.

Room: **SANTA ANITA A**

Evaluation of Data Display Methods in a Flash Flood Prediction Tool
 Elizabeth Argyle, Chen Ling, Jonathan J. Gourley, *United States*.

What Methodological Attributes Are Essential for Novice Users in Healthcare Analytics? – An Empirical Study
 Supunmali Ahangama, Danny Chiang Choon Poo, *Singapore*.

Improving Knowledge Management in Patient Safety Reporting: a Semantic Web Ontology Approach
 Chen Liang, Yang Gong, *United States*.

Proposal of Advance Care Planning Support System
 Satomi Yamamoto, Takashi Yoshino, Chigusa Kita, Misa Takeshima, Takashi Kato, *Japan*.

Visual Interactive Process Monitoring
 Sebastian Maier, Hannes Kühnel, Thorsten May, Arjan Kuijper, *Germany*.

Assessments of Control Room Interfaces for Supporting Console Operators in Petrochemical Operations
 Sophie Schwartz, Laura Ikuma, Craig Harvey, *United States*.

HIMI S118

Embodied Interaction and Communication

Chair(s): Tomio Watanabe, *Japan*.

Room: **SANTA ANITA B**

Development of a Speech-Driven Embodied Entrainment Character System with Pupil Response

Yoshihiro Sejima, Yoichiro Sato, Tomio Watanabe, Mitsuru Jindai, *Japan*.

Designing the Embodied Shadow Media Using Virtual Three-dimensional Space

Yusuke Kajita, Takuto Takahashi, Yoshiyuki Miwa, Shiroh Itai, *Japan*.

Hand-raising Robot for Promoting Active Participation in Classrooms

Saizo Aoyagi, Ryuji Kawabe, Michiya Yamamoto, Tomio Watanabe, *Japan*.

Study about Creation of "Maai" Involving Intention Using Rhythm Controller - Development of Maai Creating Agent and Interaction Experiments between Human and Agent -

Shiroh Itai, Yoshiyuki Miwa, *Japan*.

Computer Input System using Eye Glances

Shogo Matsuno, Kota Akehi, Naoaki Itakura, Tota Mizuno, Kazuyuki Mito, *Japan*.

SAFT: Firefighting Environment recognition improvement for firefighters

Jin Hyun Park, Injin Baek, SuJi Han, *Korea*.

S119

Visualisation methods and techniques

Chair(s): Tamara Babaian, *United States*.

Room: **SANTA ANITA C**

Automatic Generation of Integrated Process Data Visualizations using Human Knowledge

Felix Mayer, Ulrich Bühner, Dorothea Pantförder, Denise Gramß, Birgit Vogel-Heuser, *Germany*.

Explorative Visualization of Impact Analysis for Policy Modeling by bonding Open Government and Simulation Data

Dirk Burkhardt, Kawa Nazemi, *Germany*; Egils Ginters, Artis Aizstrauts, *Latvia*; Jörn Kohlhammer, *Germany*.

Big Data Visualization for Occupational Health and Security problem in Oil and Gas Industry

Daniela Gorski Trevisan, Nayat Sanchez-Pi, Luis Marti, Ana Cristina Bicharra Garcia, *Brazil*.

A Concept for Visualizing Psychophysiological Data in Human Computer Interaction: The FeaturePlotter

Falko Pross, Dilana Hazer, Harald Traue, Holger Hoffmann, *Germany*.

An Exploration of the Effectiveness of Infographics in Contrast to Text Documents for Visualizing Census Data: What Works?

Marylisa L. Gareau, Rebecca Keegan, Lin Wang, *United States*.

Uncertainty Visualization Framework for Improving Situational Awareness in Emergency Management Systems

Natália P. Oliveira, Leonardo Castro Botega, Lucas Cesar Ferreira, Márcio Roberto de Campos, *Brazil*.

Modernizing Exploration and Navigation in Enterprise Systems with Interactive Visualizations

Tamara Babaian, Wendy Lucas, Mengru Li, *United States*.

EPCE S120

Inherent Human-Machine Connection via Harmonized Interactivity

Chair(s): Shan Fu, *P.R. China*.

Room: **LOS CERRITOS**

Supporting Fighter Pilot Decision Making through Team Option Awareness

Tove Helldin, Tina Erlandsson, *Sweden*.

Improving Target Acquisition Performance by Integrating Human Behavior Models and Unmanned Aerial Vehicle Control Automation

Sara Naderer, Michael Patzek, Clayton Rothwell, Krishna Kalyanam, *United States*.

Understanding Team Effectiveness in a Tactical Air Unit

Ulrika Ohlander, Jens Alfredsson, Maria Riveiro, Göran Falkman, *Sweden*.

How 3D-Displays in ATC Permit Direct Event Perception

Andreas Baier, Alf Zimmer, *Germany*.

Gamification Design based Research on Speech Training System for Hearing-Impaired Children

Qiang Liu, Fengjiao Cai, Ying Yang, Ting Han, *P.R. China*.

UAHCI S121

continues...

Eye Tracking in User Experience Research

Chair(s): Jennifer Romano Bergstrom, *United States*.

Room: **SAN GABRIEL A**

Medium-fidelity Usability Evaluation for the American Community Survey Website - Using Eye-tracking Data to Examine Fixation Differences by Task Performance

Temika Holland, Erica Olmsted-Hawala, *United States*.

Gaze Interaction and Gameplay for Generation Y and Baby Boomer Users

Mina Shojaeizadeh, Seyed Siavash Mortazavi, Soussan Djamasbi, *United States*.

Eye Tracking Evaluation of User Experience on Large-scale Displays

Andrew Schall, *United States*.

A Comparison of Gaze-Based and Gesture-Based Input for a Point-and-Click Task

Dominic Canare, Barbara Chaparro, Jibo He, *United States*.

Creating Forms and Disclosures that Work: Using Eye Tracking to Improve the User Experience

Jon Strohl, Christian Gonzalez, Jake Sauser, Soodeh Montazeri, Brian Griepentrog, *United States*.

Elderly Speech-Gaze Interaction: State of the art and challenges for interaction design

Cengiz Acartürk, *Turkey*; João Freitas, *Portugal*; Mehmetcan Fal, *Turkey*; Miguel Sales Dias, *Portugal*.

Engineering Psychology and Cognitive Ergonomics

Universal Access in Human-Computer Interaction

THURSDAY 10:30 - 12:30

UAHCI S122

Universal Access for Deaf and Hard of Hearing
 Chair(s): Nicoletta Adamo-Villani, Ronnie B. Wilbur, *United States*.

Room: **SAN PEDRO**

User Friendly Interfaces for Sign Retrieval and Sign Synthesis
 Eleni Efthimiou, Stavroula-Evita Fotinea, Theodore Goulas, Panos Kakoulidis, *Greece*.

Prototyping and Preliminary Evaluation of Sign Language Translation System in the Railway Domain
 Cristina Battaglino, *Italy*; Carlo Geraci, *France*; Vincenzo Lombardo, Alessandro Mazzei, *Italy*.

Promoting Better Deaf/Hearing Communication through an Improved Interaction Design for Fingerspelling Practice
 Rosalee Wolfe, John McDonald, Jorge Andres Toro, Souad Baowidan, Robyn Moncrief, Jerry Schnepf, *United States*.

The Effect of Rendering Style on Perception of Sign Language Animations
 Tiffany Jen, Nicoletta Adamo-Villani, *United States*.

ASL-Pro: American Sign Language Animation with Prosodic Elements
 Nicoletta Adamo-Villani, Ronnie B. Wilbur, *United States*.

Comparison of Finite-Repertoire and Data-Driven Facial Expressions for Sign Language Avatars
 Hernisa Kacorri, Matt Huenerfauth, *United States*.

A Context-Based Collaborative Framework to Build Sign Language Databases by Real Users
 Diego Roberto Antunes, André L. P. Guedes, Laura Sánchez García, *Brazil*.

S123

Design Access in Interaction and Human Factors
 Chair(s): Fong-Gong Wu, *Taiwan*.

Room: **SAN GABRIEL C**

How to Construct UX and Story in HCI or Service Design
 Toshiki Yamaoka, Misako Sakamoto, *Japan*.

Integrating Motion-capture Augmented Reality Technology as an Interactive Program for Children
 Chien-Yu Lin, Chien-Jung Chen, Yu-Hung Liu, Hua-Chen Chai, Cheng-Wei Lin, Yu-Mei Huang, Ching-Wen Chen, Chien-Chi Lin, *Taiwan*.

Improving Speech Intelligibility in Classrooms by Decreasing Sound Energy of Low Frequency
 Wei Lin, Hsuan Lin, Kung-Huang Huang, *Taiwan*.

How Different Presentation Modes of Graphical Icons Affect Viewers' First Fixation and Attention
 Hsuan Lin, Wei Lin, Wang-Chin Tsai, Yu-Chen Hsieh, Fong-Gong Wu, *Taiwan*.

BeaconPass: A Location Based APP Game for Traveler
 Tsung-Yuan Ho, Chien Hsu Chen, Sheng-Fen Chien, Yi-Hsuan Chen, Su-Yu Liu, Juan Sebastian Bayona, *Taiwan*.

Interaction Design of Digital Teaching Improves Teaching and Learning Effectiveness
 Tsung-Chou Chang, Ya-Fen Tsai, Fong-Gong Wu, *Taiwan*.

Texture Recognition for Users with Color Vision Deficiencies
 Fong-Gong Wu, Erica Huang, Chao-Yuan Tseng, *Taiwan*.

S124

Designing for cognitive disabilities
 Chair(s): Pier Luigi Emiliani, *Italy*.

Room: **SAN BERNARDINO**

Design of a Computer-assisted System for Teaching Attentional Skills to Toddlers with ASD
 Zhi Zheng, Qiang Fu, Huan Zhao, Amy Swanson, Amy Weitlauf, Zachary Warren, Nilanjan Sarkar, *United States*.

Defining an Interaction Model for Users with Autism: Towards an Autistic User Model
 Andrés Mejía Figueroa, J. Reyes Juárez-Ramírez, *Mexico*.

Understanding and Improving Collaborative Skills among Individuals with ASD in a Distributed Virtual Environment
 Arpan Sarkar, Joshua W Wade, Zachary Warren, *United States*.

Presence of Autism Spectrum Disorders in University Students: Implications for Education and HCI
 Debra J Satterfield, Christopher Lepage, Nora Ladjajahan, *United States*.

Analysis and Design of three Multimodal Interactive Systems to Support the Everyday Needs of Children with Cognitive Impairments
 Stavroula Ntoa, Asterios Leonidis, Maria Korozi, Eleni Papadaki, Iliá Adami, George Margetis, Margherita Antona, Constantine Stephanidis, *Greece*.

Multimodal Fusion for Cognitive Load Measurement in an Adaptive Virtual Reality Driving Task for Autism Intervention
 Lian Zhang, Joshua W Wade, Dayi Bian, Jing Fan, Amy Swanson, Amy Weitlauf, Zachary Warren, Nilanjan Sarkar, *United States*.

VAMR S125

Human behavior in the virtual
 Chair(s): Hua Qin, *P.R. China*; James Niehaus, *United States*.

Room: **SANTA MONICA A**

Research on the Visual Comfort for Small Spaces in Different Illuminance Environments
 Linghua Ran, Xin Zhang, Hua Qin, Tai-jie Liu, *P.R. China*.

Design and Analysis of the Learning Process Management System
 Songfeng Gao, Ziqi Wang, *P.R. China*.

The Impact of Time Pressure on Spatial Ability in Virtual Reality
 Hua Qin, Bole Liu, Dingding Wang, *P.R. China*.

Synthetic Evaluation Method of Electronic Visual Display Terminal Visual Performance Based on the Letter Search Task
 Wei Liu, Weixu Cai, Borui Cui, *P.R. China*; Muxuan Wang, *Pakistan*.

Influence of Highlighting Words beneath Icon on Performance of Visual Search in Tablet Computer
 Li Wang, Liezhong Ge, Ting Jiang, Hongyan Liu, Hongting Li, Xinkui Hu, Hanling Zheng, *P.R. China*.

The Effectiveness of Virtual Reality for Studying Human Behavior in Fire
 Xinxin Feng, Rongzhen Cui, Jiabao Zhao, *P.R. China*.

Analysis of fMRI data of Intuitive Tasks
 James Niehaus, Amy Sliva, Alison O'Connor, *United States*.

Virtual, Augmented and Mixed Reality

CCD S126

Managing cognitive and social complexities
Chair(s): Qin Gao, *P.R. China*.

Room: **SANTA MONICA B**

A Formal Method for Evaluating the Performance Level of Human-Human Collaborative Procedures
Dan Pan, *P.R. China*;
Matthew Bolton, *United States*.

Automatic Imitation of Risky Behavior: A Study of Simulated Driving in China
Jiyang Duan, *P.R. China*.

Design of Literature Management Tool
Xiaojing Liao, *Singapore*.

Physician Communication Behaviors that Predict Patient Trust in Outpatient Departments
Manrong She, Zhizhong Li, P. L. Patrick Rau, *P.R. China*.

Understanding Gratifications of Watching Danmaku Videos – Videos with Overlaid Comments
Yue Chen, Qin Gao, P. L. Patrick Rau, *P.R. China*.

Cross-Cultural User Experience Design - Helping Product Designers to Consider Cultural Differences
Florian Lachner, *Australia*;
Constantin Von Saucken, *Germany*;
Florian 'Floyd' Mueller, *Australia*;
Udo Lindemann, *Germany*.

SCSM S127

Social media case studies
Chair(s): Rushed Kanawati, *France*.

Room: **SANTA MONICA D**

Are Social Media Useful for Managing Reputation Online?: Comparing User Interactions Online with Reputation Indicators
Jasmine Yoo Jung Hong, Jang Hyun Kim, *Korea*.

Interaction Study of Shuriken: User Grouping and Data Transfer Based on Inter-Device Relative Positioning
Jonathan Chung, *Canada*;
Adiyan Mujibiya, *Japan*.

Using Information Visualization Techniques to Improve the Perception of the Organizations' Image on Social Networks
Isabel H. Manssour, Milene S. Silveira, Caroline Q. Santos, Adolf J. Freitas, Flavio T. Schirmer, *Brazil*.

Ensemble Selection for Community Detection in Complex Networks
Rushed Kanawati, *France*.

Text-Mining of Hand-over Notes for Care-workers in Real Operation - Toward an Employee-Driven Innovation -
Ken Fukuda, Kentaro Watanabe, Tomohiro Fukuhara, Masahiro Hamasaki, Ryoji Fujii, Miharuru Horita, Takuichi Nishimura, *Japan*.

AC S128

Instructional Principles for Adaptive Tutoring
Chair(s): Robert A. Sottilare, *United States*.

Room: **PALOS VERDES**

Augmenting Instructional Practice in GIFT using the Engine for Management of Adaptive Pedagogy (EMAP)
Benjamin Goldberg, *United States*.

Designing Representations and Support for Metacognition in the Generalized Intelligent Framework for Tutoring
James R Segedy, John Kinnebrew, Benjamin Goldberg, Robert A. Sottilare, Gautam Biswas, *United States*.

Modeling Shared States for Adaptive Instruction
Robert A. Sottilare, *United States*.

Opportunities and Risks for Game-Inspired Design of Adaptive Instructional Systems
Scott Osofsky, *United States*.

DUXU S129 continues...

Semiotics, Art, and Motivation
Chair(s): Jan Brejcha, *Czech Republic*.

Room: **SANTA BARBARA A**

The Marriage Machine: Mobile Persuasion/ Behavior Change
Aaron Marcus, *United States*.

Chinese User-Experience Design: An Initial Analysis
Aaron Marcus, Stacey Baradit, *United States*.

Defining HCI/UX Principles for Urban Environment
Pavel Farkas, *Czech Republic*.

E-learning Platforms and Lacking Motivation in Students: Concept of Adaptable UI for Online Courses
Hana Ovesleová, *Czech Republic*.

Understanding the Semantics of Web Interface Signs: A set of Ontological Principals
Muhammad Nazrul Islam, A.K.M. Najmul Islam, *Finland*.

Cross-Cultural Design

Social Computing and Social Media

Augmented Cognition

Design, User Experience, and Usability

THURSDAY 10:30 - 12:30

DUXU S130

Telemedicine and e-health: an interdisciplinary approach

Chair(s): Claudia Renata Mont'Alvão, *Brazil*.

Room: **SANTA BARBARA B**

Three-dimensional Models and Simulation Tools Enabling Interaction and Immersion in Medical Education

Soeli T. Fiorini, Leonardo Fradjhof, Bruno Alvares De Azevedo, Jorge R. Lopes Dos Santos, Heron Werner, Alberto Raposo, Carlos José Pereira De Lucena, *Brazil*.

Evaluation of Users Acceptance of a Digital Medicine Fact sheet: Findings from a Focus Group

Amelia Lageiro, Catarina Lisboa, Emilia Duarte, *Portugal*.

Origins and Perspectives on Designing Virtual Communities of Practice for Permanent Education: a Case Study in the Collective Health Sector

Carlos Eduardo Ribeiro, Claudia Renata Mont'Alvão, *Brazil*.

MedData: a Mobile Application Designed for Medical Teams to Monitor Clinical Evolution of Inpatient in ICU Context

Carlos Alberto Pereira De Lucena, Claudia Renata Mont'Alvão, Bruno Alvares De Azevedo, *Brazil*.

An Internet of Things Application with an Accessible Interface for Remote Monitoring Patients

Chrystinne Oliveira Fernandes, Carlos José Pereira De Lucena, *Brazil*.

Designing an Interface Agent-Based Architecture for Creating a Mobile System of Medical Care

Ariel Escobar Endara, Carlos José Pereira De Lucena, *Brazil*.

A Usability Study of a Gesture Recognition System Applied During the Surgical Procedures

Antonio Opromolla, Valentina Volpi, Andrea Ingrosso, Stefano Fabri, Claudia Rapuano, Delia Passalacqua, Carlo Maria Medaglia, *Italy*.

S131

Design, Ergonomics and Usability - II

Chair(s): Marcelo Soares, *Brazil*.

Room: **SANTA BARBARA C**

Prototyping and Testing Throughout All the Design Process as a Methodology for Developing Interaction Design Projects

Lucas Cypriano, Mauro Pinheiro, *Brazil*.

Humanizing Labor Resource in a Discrete Event Manufacturing Simulation Software

Lia Buarque De Macedo Guimarães, Carlos Sergio Schneider, *Brazil*.

Analysis of Usability and Information Architecture of the UFRN Institutional Repository

Débora Koshiyama, André Luís Santos De Pinho, José Guilherme Santa Rosa, *Brazil*.

A Usability Study of a Brain-Computer Interface Apparatus: an Ergonomic Approach

Rafaela Q. Barros, Gabriele Santos, Caroline Ribeiro, Rebeca Torres, Manuella Barros, Marcelo Soares, *Brazil*.

How we Perceive Search Engines

Leonardo Penna, Manuela Quaresma, *Brazil*.

Improving Song Guessing Games through Music Track Composition

Joao Marcelo Teixeira, Dicksson RO Almeida, Edvar Neto, Veronica Teichrieb, *Brazil*.

Usability of Touchpad Based Game Controller Interfaces

Jonathon Kissinger, Tony Morelli, *United States*.

HAS S132

Human Aspects of Information Security, Privacy and Trust for Smart Buildings

Chair(s): Steffen Wendzel, *Germany*.

Room: **SAN FERNANDO**

Applying the ACPO guidelines to Building Automation Systems

Iain Sutherland, *Norway*; Theodoros Spyridopoulos, Huw Read, Andy Jones, Graeme Sutherland, *United Kingdom*; Mikhaila Burgess, *Norway*.

Analysis of Human Awareness of Security and Privacy Threats in Smart Environments

Luca Caviglione, *Italy*; Jean-Francois Lalande, *France*; Wojciech Mazurczyk, *Poland*; Steffen Wendzel, *Germany*.

Adjustable Fusion to Support Cyber Security Operators

François-Xavier Aguessy, Olivier Bettan, Romuald Dobigny, Claire Laudy, Gaëlle Lortal, David Faure, *France*.

Visualizing BACnet Data to Facilitate Humans in Building-Security Decision-Making

Jernej Tonejc, Jaspreet Kaur, Adrian Karsten, Steffen Wendzel, *Germany*.

Perceptions of Personal Privacy in Smart Home Technologies: Do User Assessments Vary Depending on the Research Method?

Wiktoria Wilkowska, Martina Ziefle, Simon Himmel, *Germany*.

Privacy Principles in Design of Smart Homes Systems in Elderly Care

Ella Kolkowska, *Sweden*.

HCIB S133

PANEL: Creating Greater Synergy between HCI Academia and Practice

Chair(s): Fiona Fui-Hoon Nah, *United States*.

Room: **SAN GABRIEL B**

Presentation 1 (practitioner's perspective)

Anna Wichansky, *United States*.

Presentation 2 (academician's perspective)

Gavriel Salvendy, *United States*.

Presentation 3 (practitioner's perspective)

James R. Lewis, *United States*.

Presentation 4 (academician's perspective)

Hong Sheng, *United States*.

Presentation 5 (practitioner's perspective)

John Pruitt, *United States*.

Presentation 6 (academician's perspective)

Dennis Galletta, *United States*.

Presentation 7 (practitioner's perspective)

Melinda Knight, *United States*.

Creating Greater Synergy between HCI Academia and Practice

Fiona Fui-Hoon Nah, Dennis Galletta, Melinda Knight, James R. Lewis, John Pruitt, Gavriel Salvendy, Hong Sheng, Anna Wichansky, *United States*.

Human Aspects of Information Security, Privacy and Trust

HCI in Business

LCT S134

Advanced interaction systems in technology enhanced learning and training
 Chair(s): Paloma Díaz, Telmo Zarraonandia, *Spain*.

Room: **LOS FELIZ**

Transferring an Educational Board Game to a Multi-User Mobile Learning Game to Increase Shared Situational Awareness
 Roland Klemke, Shalini Kurapati, Heide Lukosch, Marcus Specht, *Netherlands*.

The use of Augmented Reality Interfaces for On-site Crisis Preparedness
 Monica Sebillio, Genoveffa Tortora, Giuliana Vitiello, Luca Paolino, *Italy*; Athula Ginige, *Australia*.

A Platform for Supporting the Development of Mixed Reality Environments for Educational Games
 Luis Arenas, Telmo Zarraonandia, Paloma Diaz, Ignacio Aedo, *Spain*.

The Learning Effect of Augmented Reality Training in a Computer-based Simulation Environment
 Jung Hyup Kim, Tiffany Chan, Wei Du, *United States*.

Design and Evaluation of a Learning Assistant System with Optical Head-Mounted Display (OHMD)
 Xiao Du, Ali Arya, *Canada*.

Virtual Music Teacher for New Music Learners with Optical Music Recognition
 Viet-Khoi Pham, Hai-Dang Nguyen, Minh-Triet Tran, *Viet Nam*.

Design Solutions for Interactive Multi-video Multimedia Learning Objects
 Caio C. Viel, Kamila R. H. Rodrigues, Cesar A.C. Teixeira, Maria G.C. Pimentel, *Brazil*.

ITAP S135

Assistive Technology for the Aging Population
 Chair(s): Jenay M. Beer, *United States*.

Room: **BEAUDRY B**

Exploring Use Cases of Smart Presence for Retirement Communities
 Karina R. Liles, Rachel E. Stuck, Allison A. Kacmar, Jenay M. Beer, *United States*.

Delivering Telemonitoring Care to Digitally Disadvantaged Older Adults: Human-Computer Interaction (HCI) Design Recommendations
 Hongtu Chen, Sue Levkoff, *United States*.

A Robot of My Own: Participatory Design of Socially Assistive Robots for Independently Living Older Adults Diagnosed with Depression
 Selma Sabanovic, Wan-Ling Chang, Casey Bennett, Jennifer Piatt, David Hakken, *United States*.

Assessing Older Adults' Usability Challenges Using Kinect-Based Exergames
 Christina N. Harrington, Jordan Q. Hartley, Tracy L. Mitzner, Wendy A. Rogers, *United States*.

Perceptions of Computer System Usefulness: Insights for Design from Experienced Older Users
 Tracy L. Mitzner, Neil Charness, Wendy A. Rogers, *United States*.

Principles for Developing Digital Health Interventions for Prostate Cancer: A Community-Based Design Approach with African American Men
 Shaun Owens, *United States*.

Accessibility in Serious Games for Adults Aging with Disability
 Keiko Gomez-Gurley, Anne Collins McLaughlin, Maribeth Gandy, Jason Allaire, *United States*.

S136

Aging and Technology Acceptance - II
 Chair(s): Jia Zhou, *P.R. China*.

Room: **BEAUDRY A**

Ease-of-Use of Tactile Interaction for Novice Older Adults
 Lilian Genaro Motti, Nadine Vigouroux, Philippe Gorce, *France*.

Emotions Identification to Measure User Experience Using Brain Biometric Signals
 Ivan Carrillo, Victoria Meza-Kubo, Alberto Morán, Gilberto Galindo, Eloisa García-Canseco, *Mexico*.

Robotic Interfaces Design: Avatar and GUI Competing for Older User's Attention
 Angie Lorena Marín Mejía, *Japan*.

Music in the Retiring Life: A Review of Evaluation Methods and Potential Factors
 Mao Mao, Alan F. Blackwell, David A. Good, *United Kingdom*.

Differences in the Adoption of Smartphones between Middle Aged Adults and Older Adults in China
 Shang Gao, John Krogstie, *Norway*; Yuhao Yang, *P.R. China*.

Computer Input Devices and the Elderly: a Musculoskeletal Disorder Focus
 Alvaro D. Taveira, Sang Choi, *United States*.

Aging Working Population: Hearing Impairment a Growing Challenge for the Working Environment
 Verena Wagner, K. Wolfgang Kallus, *Austria*.

HCI S137

Safety and Human Factors
Chair(s): Hiroshi Ujita, *Japan*.

Room: **AVALON**

Fukushima No. 1 Nuclear Power Plant: The Moment of "Safety Myth" Collapses
Aki Nakanishi, Toshio Takagi, Hajime Ushimaru, Masato Yotsumoto, Daisuke Sugihara, *Japan*.

Some Investigations of Fukushima Dai-ichi Accidents from the Viewpoints of Human Factors
Akio Gofuku, Hiroshi Furukawa, Hiroshi Ujita, *Japan*.

Accident Analysis by using Methodology of Resilience Engineering, High Reliability Organization, and Risk Literacy
Hiroshi Ujita, *Japan*.

Survey on Risk Management based on Information Security Psychology
Yasuko Fukuzawa, Masaki Samejima, Hiroshi Ujita, *Japan*.

Improving IT Security through Security Measures: Using Our Game-Theory-Based Model of IT Security Implementation
Masashi Sugiura, Hirohiko Suwa, Toshizumi Ohta, *Japan*.

A Psychological Approach to Information Security - Some Ideas for Establishing Information Security Psychology -
Katsuya Uchida, *Japan*.

S138

Input methods and techniques
Chair(s): Beatriz Sousa Santos, *Portugal*.

Room: **EMERALD BAY**

Fitts' Throughput and the Remarkable Case of Touch-based Target Selection
Ian Scott MacKenzie, *Canada*.

Airway Cursor: A Pointing Technique Based on Direction of Mouse Movement towards Targets
Tomohiro Nakatsuji, Keiko Yamamoto, Itaru Kuramoto, Yoshihiro Tsujino, *Japan*.

To Write not Select, A New text entry Method Using Joystick
ZhenYu Gu, Xingya Xu, Cheng Chu, *P.R. China*; Yuchen Zhang, *Canada*.

Graphical User Interface for Search of Mathematical Expressions with Regular Expressions
Takayuki Watabe, Yoshinori Miyazaki, *Japan*.

Investigation of Transferring Touch Events for Controlling a Mobile Device with a Large Touchscreen
Kazusa Onishi, Buntarou Shizuki, Jiro Tanaka, *Japan*.

HIMI S139

Digital Museum
Chair(s): Michitaka Hirose, *Japan*.

Room: **SANTA ANITA A**

Experience Simulator for the Digital Museum
Yasushi Ikei, Seiya Shimabukuro, Shunki Kato, Kohei Komase, Koichi Hirota, Tomohiro Amemiya, Michiteru Kitazaki, *Japan*.

Virtual Bogie: Exhibition System to understand Mechanism of Bogie with Digital Display Case
Tomohiro Tanikawa, Hiroshi Ohara, Ryo Kiyama, Takuji Narumi, Michitaka Hirose, *Japan*.

Application of the Locomotion Interface using Anthropomorphic Finger Motion
Yusuke Ujitoko, Koichi Hirota, *Japan*.

Fortune Air: An Interactive Fortune Telling System Using Vortex Air Cannon
Ryoko Ueoka, Naoto Kamiyama, *Japan*.

Virtual Jizai-Ryu: High-fidelity Interactive Virtual Exhibit with Digital Display Case
Yuki Ban, Takashi Kajinami, Takuji Narumi, Tomohiro Tanikawa, Michitaka Hirose, *Japan*.

Induction of Human Behavior by Presentation of Environmental Acoustics
Eisuke Fujinawa, Sho Sakurai, Mashiko Izumi, Takuji Narumi, Osamu Houshuyama, Tomohiro Tanikawa, Michitaka Hirose, *Japan*.

K-Culture Time Machine: Development of Creation and Provision Technology for Time-Space-connected Cultural Contents
Taejin Ha, Yunsung Kim, Eunseok Kim, Kihong Kim, Sangmin Lim, Seungmo Hong, Jea In Kim, Sunhyuck Kim, Junghwa Kim, Woontack Woo, *Korea*.

S140

Service Engineering and Application
Chair(s): Koji Kimita, *Japan*.

Room: **SANTA ANITA B**

Generating summary videos based on image and sound information from movies
Yurina Imaji, Masaya Fujisawa, *Japan*.

Human Characteristics of Figure Recognition in Tactile Feedback
Motoki Tanuma, Makoto Oka, Hirohiko Mori, *Japan*.

Voice Control System and Multiplatform Use: Specialist vs. Generalist?
Soyoung Jung, Kwan Min Lee, Frank Biocca, *United States*.

SAW-Oriented User Interfaces for Emergency Dispatch Systems
Leonardo Castro Botega, Lucas Cesar Ferreira, Natália P. Oliveira, Allan C M Oliveira, Claudia Beatriz Berti, Vânia Paula De Neris, Regina Borges De Araújo, *Brazil*.

Centralized Approach for a Unified Wireless Network Access
Jan David Nose, Jaromir Likavec, Christian Bischof, Arjan Kuijper, *Germany*.

A Topic Model for Clustering Learners based on Contents in Educational Counseling
Takatoshi Ishii, Satoshi Mizoguchi, Koji Kimita, Yoshiki Shimomura, *Japan*.

Learning State Model for Value Co-Creative Education Services
Koji Kimita, Keita Muto, Satoshi Mizoguchi, Yutaro Nemoto, Takatoshi Ishii, Yoshiki Shimomura, *Japan*.

EPCE S141

Cognitive workload and performance
Chair(s): Jingyu Zhang, *P. R. China.*

Room: **LOS CERRITOS**

Towards a Continuous Method for Mental Workload Registration
Thea Radiüntz, Gabriele Freude, *Germany.*

How Automation Effect Mental Workload of Novice Operators in Space Rendezvous and Docking
Xiaoping Du, Yijing Zhang, Bin Wu, Meng Wang, Jiayi Cai, Weifen Huang, *P.R. China.*

The Effect of Simulated Threat on Task Performance during Emotion Recognition
Tibor Bosse, Koen Schnitfink, *Netherlands.*

Evaluating Operator Performance in Teleoperated Manipulator System Factored by Camera Configurations
Yan Fu, Wei Chen, Shiqi Li, *P.R. China;* Zhang Jiao, *Japan.*

Visual Movement and Mental-Workload for Pilot Performance Assessment
Chen-Kai Hsu, Shu-Chiang Lin, *Taiwan;* Wen-Chin Li, *United Kingdom.*

UAHCI S142

Next Generation Accessible Voting: Interactions and Technologies
Chair(s): Juan E. Gilbert, *United States.*

Room: **SAN GABRIEL A**

Toward Private and Independent Accessible Write-In Voting: A Multimodal Prediction Approach
Shanee Dawkins, Wanda Eugene, Tamirat Abegaz, Juan E. Gilbert, *United States.*

Joystick Interaction Strategies of Individuals with Dexterity Impairments: Observations from the Smart Voting Joystick Usability Evaluation
James E Jackson, Jennifer Ismirle, Sarah J. Swierenga, Stephen Blosser, Graham L Pierce, *United States.*

The Impact of Literacy on Usable and Accessible Electronic Voting
Kathryn Summers, Jonathan Langford, *United States.*

A Universal Ballot to Enable Voting for All
Seunghyun "Tina" Lee, Yilin Elaine Liu, Ljilja Ruzic Kascak, Jon A. Sanford, *United States.*

Polling Place Support Tool; User Interface to Plan and Run Polling Places
Ted Selker, *United States;* Shama Hoque, *Bangladesh.*

S143

HCI-based Affective/Blended/Inclusive-Technologies: Trends, Models and Applications
Chair(s): João Barroso, *Portugal;* Leontios J. Hadjileontiadis, *Greece.*

Room: **SAN GABRIEL B**

A Model for the Use of Social Paradigms in Mobile Ubiquitous Interactions
Vitor Santos, *Portugal.*

A Game-like Application for Dance Learning using a Natural Human Computer Interface
Alexandros Kitsikidis, Kosmas Dimitropoulos, *Greece;* Deniz Uğurca, Can Bayçay, Erdal Yilmaz, *Turkey;* Filareti Tsalakanidou, Stella Douka, Nikos Grammalidis, *Greece.*

Enhancing Blended Environments through Fuzzy Cognitive Mapping of LMS Users' Quality of Interaction: The Rare & Contemporary Dance Paradigms
Sofia B. Dias, *Portugal;* Sofia J. Hadjileontiadou, *Greece;* José Alves Diniz, *Portugal;* Leontios J. Hadjileontiadis, *Greece.*

Smart Remote Control Design for Seniors
António Pereira, Fernando Silva, José Ribeiro, Isabel Marcelino, João Barroso, *Portugal.*

Increasing Super Pop VR(TM) Users' Intrinsic Motivation by Improving the Game's Aesthetics
Sergio Garcia-Vergara, Hongfei Li, Ayanna Howard, *United States.*

EmoActivity - An EEG-Based Gamified Emotion HCI for Augmented Artistic Expression: The iTreasures Paradigm
Vasileios Charisis, Stelios Hadjimidimitriou, Leontios J. Hadjileontiadis, *Greece;* Deniz Uğurca, Erdal Yilmaz, *Turkey.*

Developing a Digital Game for Domestic Stroke Patients' upper Extremity Rehabilitation – Design and Usability Assessment
Lan-Ling Huang, Mei-Hsiang Chen, Chao-Hua Wang, Chang-Franw Lee, *Taiwan.*

S144

Design Access in Human Communication and Interaction
Chair(s): Fong-Gong Wu, *Taiwan.*

Room: **SAN GABRIEL C**

Using Interpretive Structural Modeling to Make Decisions for Direction of Caring Design
Ming-Tang Wang, *Taiwan.*

Visual Communication of Lovely Characters in Digital Development Arena
Cheih-Ying Chen, Xu-Qin Zhunag, *Taiwan.*

Effects of Facebook Like and Conflicting Aggregate Rating and Customer Comment on Purchase Intentions
Yu-Hsiu Hung, Hsueh-Yi Lai, *Taiwan.*

Application of Infrared Technology in Household Water Tap Design and Evaluation
Ming-Shih Chen, Ming-Lun Li, Yu-Chia Chen, *Taiwan.*

Methodology for Evaluating the Usability of Public Equipment for Physical Activity: An Approach to Interface with Blind and Low Vision Individuals
Sabrina Talita Oliveira, Maria Lucia Leite Ribeiro Okimoto, *Brazil.*

Design and Design Thinking to Help the Aged People in Fallen Situations
Jei-Chen Hsieh, *Taiwan.*

Context-aware Communicator for All
Paola Garcia, Eduardo Lleida, Diego Castan, Jose Manuel Marcos, David Romero, *Spain.*

Virtual, Augmented and Mixed Reality

VAMR S145

VAMR in design, assembly and maintenance

Chair(s): Rafael Radkowski, *United States*.

Room: **SANTA MONICA A**

Appraisal of Augmented Reality Technologies for Supporting Industrial Design Practices

Basak Topal, *Turkey*;
Bahar Sener, *United Kingdom*.

Evaluation of a Vehicle Exterior's Sportiness under Real vs. Virtual Conditions

Max G Hoermann, Maximilian Schwalm, *Germany*.

Occlusion Management in Augmented Reality Systems for Machine-tools

Claudia Georgeta Gheorghe, Didier Rizzotti, François Tièche, Francesco Carrino, Omar Abou Khaled, Elena Mugellini, *Switzerland*.

Investigation of Visual Features for Augmented Reality Assembly Assistance

Rafael Radkowski, *United States*.

Study on The Design Characteristics of Head Mounted Displays (HMD) For Use in Guided Repair and Maintenance

Tao Yang, Young Mi Choi, *United States*.

ARTiSt - Augmented Reality Testbed for Intelligent Technical Systems

Bassem Hassan, Jörg Stöcklein, Jan Berssenbrügge, *Germany*.

Cross-Cultural Design

CCD S146

Interactive Technology Design

Chair(s): P. L. Patrick Rau, *P.R. China*.

Room: **SANTA MONICA B**

Investigation of a Driver-to-Driver Communication Method Through Rear Window Display for Chinese

Na Liu, Ruifeng Yu, De-Yu Wang, Yunhong Zhang, *P.R. China*.

A Study on the Balance and Optimization Measures in Industry-University Collaborative Innovation of Interaction Design

Jianxin Cheng, Miao Liu, Junnan Ye, *P.R. China*.

Applying Soundscape to Creating an Interactive and Cultural Centered Experience

Hsiu Ching Laura Hsieh, Chiao Yu Hwang, *Taiwan*.

Leap-Motion Based Online Interactive System for Hand Rehabilitation

Zhe Liu, Yingzhi Zhang, P. L. Patrick Rau, *P.R. China*; Pilsung Choe, Tauseef Gulrez, *Qatar*.

Design of a Clothing Shopping Guide Website for Visually Impaired People

Huiqiao Yang, Qijia Peng, Qin Gao, P. L. Patrick Rau, *P.R. China*.

Augmented Cognition

AC S147

Applying science to complex operational environments: Methodological case studies from the Transportation Security Administration's human factors group

Chair(s): Ann Speed, *United States*.

Room: **SAN BERNARDINO**

Methods for Determining the Role of Fatigue and Cognitive Load on Behavior Detection Officers (BDOs) Performance in the Field

Robert Kittinger, James Bender, *United States*.

An Examination of Visual Search Success for Transportation Security Officers and Behavior Detection Officers

Randall Spain, Jerry Hedge, Katrina Ladd, *United States*.

Designing, Developing, and Validating an Adaptive Visual Search Training Platform

Kelly Hale, Katie Del Giudice, Jesse Flint, Darren Wilson, Katherine Muse, Bonnie Kudrick, *United States*.

A Quantitative Methodology for Identifying Attributes which Contribute to Performance for Officers at the Transportation Security Administration

Glory Emmanuel, Robert Kittinger, Ann Speed, *United States*.

Human Factors within the Transportation Security Administration: Optimizing Performance through Human Factors Assessments

Bonnie Kudrick, Daniel Caggiano, Ann Speed, *United States*.

Through a Scanner Quickly: Elicitation of Event-related Potentials in Transportation Security Officers Following Rapid Image Presentation and Categorization

Michael Trumbo, Laura E. Matzen, Austin Silva, Michael J. Haass, Kristin Divis, Ann Speed, *United States*.

S148

Operational Neuroscience - I

Chair(s): Rodolphe J. Gentili, *United States*.

Room: **PALOS VERDES**

Integration and Disintegration of Auditory Images Perception

Sergei Lytaev, Ksenia Belskaya, *Russia*.

Towards a Translational Method for Studying the Influence of Motivational and Affective Variables on Performance during Human-Computer Interactions

Jason S. Metcalfe, Stephen M. Gordon, Antony D. Passaro, Bret Kellihan, Kelvin Oie, *United States*.

An Object-Centric Paradigm for Robot Programming by Demonstration

Di-Wei Huang, Garrett E. Katz, Joshua D. Langsfeld, Hyuk Oh, Rodolphe J. Gentili, James A. Reggia, *United States*.

Cognitive-Motor Processes during Arm Reaching Performance through a Human Body-Machine Interface

Rodolphe J. Gentili, Isabelle Shuggi, Kristen King, Hyuk Oh, Patricia Shewokis, *United States*.

Measuring Situational Awareness Aptitude Using Functional Near-Infrared Spectroscopy

Leanne Hirshfield, Mark Costa, Danushka Bandara, Sarah Bratt, *United States*.

DHM S149

Enhancing "human machine" behavior and performance: from human factors and ergonomic engineering to integrative bioengineering

Chair(s): Didier Fass, *France*;
Brian F. Gore, *United States*.

Room: **SANTA ANITA C**

Analyzing Requirements using Environment Modelling

Dominique Mery, *France*;
Neeraj Kumar Singh, *Canada*.

Towards a theory for Bio – Cyber Physical Systems Modeling

Didier Fass, Franck Gechter, *France*.

Semantically Integrated Human Factors Engineering

Sébastien Marnessier, *United States*; Daniel Dreyer, Matthias Oberhauser, *Germany*.

Toward a Model for Effective Human-Automation Interaction: The Mediated Agency

Kevin Le Goff, Arnaud Rey, Bruno Berberian, *France*.

Inside the User's Mind – Perception of Risks and Benefits of Unknown Technologies, Exemplified by Geothermal Energy

Johanna Kluge, Sylvia Kowalewski, Martina Ziefle, *Germany*.

A Bi-Level Optimization Approach to get an Optimal Combination of Cost Functions for Pilot's Arm Movement: The Case of Helicopter's Flying Aid Functions with Haptic Feedback

Sami Cheffi, Thomas Rakotomamonjy, Laurent Binet, Philippe Bidaud, Jean-Christophe Sarrazin, *France*.

Human Machine Epistemology Survey

Rémi Nazin, Didier Fass, *France*.

S150

Human Modeling of Traditional Arts and Technologies - III

Chair(s): Akihiko Goto, *Japan*.

Room: **BEAUDRY A**

A Study on Characteristic of Calligraphy Characters-Part 1 Analytical method with computer technology

Zelong Wang, *P.R. China*; Issei Harima, Zenichiro Maekawa, *Japan*.

A Study on Characteristic of Calligraphy Characters-Part 2 Case of one Character of Calligraphy Letter "Kanji" and "Hiragana"

Zelong Wang, Mengyuan Liao, *P.R. China*; Kayo Yokota, Riichi Hagihara, Zenichiro Maekawa, *Japan*.

A Study on Characteristic of Calligraphy Characters-Part 3 Case of the writing paper with Calligraphy Letter works

Zelong Wang, *P.R. China*; Riichi Hagihara, Zenichiro Maekawa, *Japan*.

Comparison of Description Skill on Characteristics of the Urushi Crafts Work between Expert Craftspeople and Non-expert Craftspeople

Atsushi Endo, Mari Shimode, Yutaro Shimode, Seishi Namiki, Noriaki Kuwahara, Hiroyuki Hamada, *Japan*.

Effect of Skill Level Difference in the Polishing Process of the Maki-e Making Technique

Atsushi Endo, Hisanori Yuminaga, Chihiro Akatsuka, Takuya Sugimoto, Yutaro Shimode, Hiroyuki Hamada, *Japan*.

Study on Method of Observing Maki-e Crafts Work in Urushi Craftspeople

Atsushi Endo, Noriyuki Kida, Yutaro Shimode, Isao Oda, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

DUXU S151

Practicing what we Preach: Usability and user experience case studies

Chair(s): Tim Schneidermeier, *Germany*.

Room: **SANTA BARBARA A**

Usability Analysis of IxDA.org

Julija Naskova, *Hong Kong*.

Lessons Learned in Usability Consulting

Tim Schneidermeier, *Germany*.

Practice what we Preach – Checking the Usability of HCI Conference Websites

Franziska Hertlein, Bastian Hinterleitner, Matthias Voit, Tim Schneidermeier, Christian Wolff, *Germany*.

Evaluating an Education Department Portal: A Case Study

Xiaojun Yuan, Huahai Yang, Kathleen Moorhead, Kathleen D. DeMers, *United States*.

Heuristic Evaluation of University Institutional Repositories Based on DSpace

Maha M Aljohani, Jamie Blustein, *Canada*.

S152 continues...

Information Design and User Experience

Chair(s): Carla G. Spinillo, Virginia Tiradentes Souto, *Brazil*.

Room: **SANTA BARBARA B**

Designing Apps for Tourists: a Case Study

Virginia Tiradentes Souto, Caio Cristo, Maria Gabriela Araújo, Lucas Santos, *Brazil*.

How Do I Get to Room 3106? Student Wayfinding Designs for Old Main at Wayne State University

Judith Moldenhauer, *United States*.

Interactive Multisensory Data Representation

Patricia Search, *United States*.

An Interactive Guide to Design Animated Visual Instructions in Brazil

Carla G. Spinillo, Roberta Perozza, *Brazil*.

Study on improving Geographic Information Service for Domestic Tourist

SuJi Han, Young Hwan Pan, *Korea*.

Cultural Reflections in Qatari Government Websites

Nouf Khashman, *Canada*.

Chinese UI Design Guidelines 2.0

Jan Brejcha, *Czech Republic*; Hui Li, Qing Xu, Huitian Miao, Menghan Xu, Li Wang, Zhengjie Liu, *P.R. China*.

DUXU S153

Design, Ergonomics and Usability - III

Chair(s): Marcelo Soares, *Brazil*.

Room: **SANTA BARBARA C**

Doctor Who: Legacy, an Analysis of Usability and Playability of a Multi-Platform Game

Rennan C Raffaele, Renato Alencar, Iran Júnior, Bruno Colley, Gabriel Pontes, Breno Carvalho, Marcelo Soares, *Brazil*.

Ergonomic and Usability Analysis of Interactive Whiteboards in the Academic Environment

Eduardo Oliveira, Erick Vasconcelos, Elzani Sobral, Sayonara Bittencourt, Tiago Ramos, Marcelo Soares, *Brazil*.

Newsgames: Gameplay and Usability in Simulation Games

Carla Teixeira, Breno Carvalho, Jarbas Agra, Valeska Martins, Anthony Lins, Marcelo Soares, André Neves, *Brazil*.

Design Perspectives to the Design of Interfaces Connected and Convergent for T-Commerce Applications

Marcelo Falco, Rachel Zuanon, *Brazil*.

A Study of the Fault Tree Human in Aviation

Edgard Martins, Isnard Martins, Marcelo Soares, *Brazil*.

Products with Biomimetic Shapes Convey Emotions More Effectively

Tyan Yu Wu, Hon Kai Chen, *Taiwan*.

DAPI S154

Contextual Interaction Design

Chair(s): Teng-Wen Chang, *Taiwan*.

Room: **SANTA MONICA D**

Tou Hsiang Kun – A Platform for Elderly and Neighborhood to Help Each Other

Yi-Sin Wu, Teng-Wen Chang, Ying-Ru He, *Taiwan*; Yi Wang, *P.R. China*; Wei-Hung Chen, You-Cheng Zhang, *Taiwan*.

Combining Generative Art and Physiological Information for New Situation of Garden Restaurant

Tung-Chen Tsai, Chao-Ming Wang, *Taiwan*.

Bandage Man: a Spatial Interaction Design in a Sensible Space for Connecting Family

Min-Nan Liao, Teng-Wen Chang, *Taiwan*.

Context-based Document Management in Smart Living Environments

Julian Von Wilmsdorff, Alexander Marinc, Arjan Kuijper, *Germany*.

Hierarchical Narrowcasting

Michael Cohen, *Japan*.

Distributed, Ambient and Pervasive Interactions

HAS S155

Security, privacy and trust in human-computer interactions

Chair(s): Noluntu Mpekoa, *South Africa*.

Room: **SAN FERNANDO**

Information Presentation: Considering On-Line User Confidence for Effective Engagement

Elahe Kani-Zabihi, Lizzie Coles-Kemp, Martin Helmhout, *United Kingdom*.

Usable-Security Evaluation

Yasser M. Hausawi, *Saudi Arabia*; William H. Allen, *United States*.

Factors that Influence Information Security Behaviour: An Australian Web-based Study

Malcolm R Pattinson, Marcus Butavicius, Kathryn Parsons, Agata McCormac, Dragana Calic, Cate Jerram, *Australia*.

Usability of Activity-Based and Image-Based Challenge Questions in Online Student Authentication

Abrar Ullah, Hannan Xiao, Trevor Barker, *United Kingdom*.

Hobson's Choice: Security and Privacy Permissions in Android and iOS Devices

John Haggerty, Thomas Hughes-Roberts, Robert Hegarty, *United Kingdom*.

Human Aspects of Information Security, Privacy and Trust

HCIB S156

Optimising interactions for commercial success

Chair(s): Sue Hessey, *United Kingdom*.

Room: **SAN PEDRO**

Helping Customers Help Themselves – Optimising Customer Experience by Improving Search Task Flows

Sue Hessey, *United Kingdom*.

Serving the Social Customer: How to Look Good on the Social Dance Floor

Nicola J. Millard, *United Kingdom*.

Infusing User Experience into the Organizational DNA of an Enterprise IT Shop

Faith McCreary, Marla Gomez, Derrick Schloss, *United States*.

Key Factors in Developing Omnichannel Customer Experience with Finnish Retailers

Satu Peltola, Harri Vainio, Marko H.T. Nieminen, *Finland*.

The Knowledge Gap: Providing Situation-aware Information Assistance on the Shop Floor

Mario Aehnelt, Bodo Urban, *Germany*.

HCI in Business

LCT S157

Digital literacy

Chair(s): Edmund Laugasson, Estonia.

Room: **LOS FELIZ**

Let's Plays, Video Streams, and the Evolution of New Digital Literacy

Peter A. Smith, Alicia D. Sanchez, United States.

Impacting the Digital Divide on a Global Scale – Six Case Studies from Three Continents

Birgy Lorenz, Estonia; Savilla Irene Banister, United States; Kaido Kikkas, Estonia.

Free Software User Interfaces: Usability and Aesthetics

Edmund Laugasson, Mati Möttus, Estonia.

A Notification and Recommender Mobile App for Educational Online Discussion: A Design Research Approach

Kittisak Sirisaengtaksin, Lorne Olfman, Nimer Alrushiedat, United States.

An Exploration of Mobile Collaborative Writing Interface Design

Menghui Li, Young Mi Choi, United States.

Users and Technologies in Education: a Pending Course

Cristobal Fernández Robin, Chile; Scott McCoy, United States; Diego Yáñez Martínez, Chile.

ITAP S158

Making ICT use, personalization, and security instant and easier for older users

Chair(s): Gregg C. Vanderheiden, United States.

Room: **BEAUDRY B**

Patterns for User Interface Adaptations - Towards Runtime Adaptations for Improving the Usability of Web Forms for Elderly Users

Gottfried Zimmermann, Annkristin Stratmann, David Reeb, Tobias Glaser, Germany.

ICT Access in Libraries for Elders

Amrish Chourasia, Jim Tobias, Steve Githens, Yao Ding, Gregg C. Vanderheiden, United States.

Conducting Acceptance Tests for Elderly People on the Web - Using the GPII Preference Set for a Personalized Evaluation

Alexander Henka, Andreas Stiegler, Gottfried Zimmermann, Thomas Ertl, Germany.

Evaluating All-Inclusive ICT with Developers, End Users and Stakeholders

Eleni Chalkia, Evangelos Bekiaris, Greece; R. Ignacio Madrid, Spain.

Gamification and Accessibility

Andreas Stiegler, Gottfried Zimmermann, Germany.

Giving Elderly Access to Smart Environments - Providing Adaptive User Interfaces Based on Web Components, the Universal Remote Console and the Global Public Inclusive Infrastructure

Lukas Smirek, Alexander Henka, Gottfried Zimmermann, Germany.

HCI S159

Ergonomics of Visual Interfaces
Chair(s): Jerzy Grobelny, Rafal Michalski, *Poland.*

Room: **AVALON**

Compatibility of Information and Interface of Universities' Multilingual Websites
Krzysztof P Hankiewicz, *Poland.*

Web-Systems Remote Usability Tests and their Participant Recruitment
Piotr Chynal, Janusz Sobecki, *Poland.*

Subjective Perception of the Background Color and Layout in the Design of Typical Graphical Control Panels
Rafal Michalski, Jerzy Grobelny, *Poland.*

Comparative analysis of regular grid based algorithms in the design of graphical control panels
Jerzy Grobelny, Rafal Michalski, *Poland.*

Factors Influencing Online Shop Layout Preferences
Katarzyna Jach, Marcin Kulinski, *Poland.*

The Effects of the Anthropological Race, Gender and Location of Verbal-Pictorial Stimuli on the Usability of Visual Information Conveyance
Joanna Koszela-Kulinska, Rafal Michalski, *Poland.*

HIMI S160

Design, Web and Culture
Chair(s): Denis A. Coelho, *Portugal.*

Room: **SANTA ANITA A**

Exploring Cultural Symbols in Nigeria for Contemporary Applications in Web Visual Design
Isah Bolaji Kashim, *Nigeria*; Oluwafemi Samuel Adelabu, *Japan*; Sunday Ogunwole, *Nigeria.*

Internet Users' Legal and Technical Perspectives on Digital Legacy Management for Post-Mortem Interaction
Cristiano Maciel, Vinicius Carvalho Pereira, Monica Sztern, *Brazil.*

Association of National Dimensions of Culture with Perceived Public Sector Corruption
Denis A. Coelho, *Portugal.*

Narrower Conceptual Scope in the App than the Web Store Interface – The Size does it and the Ad has it
Chien-Ling Kao, Man-Ying Wang, *Taiwan.*

S161

Virtual Reality and cross modality
Chair(s): Yasushi Ikei, *Japan.*

Room: **SANTA ANITA B**

Development of the Horror Emotion Amplification System by Means of Biofeedback Method
Ryoko Ueoka, Kouya Ishigaki, *Japan.*

Changing Drinking Behavior and Beverage Consumption Using Augmented Reality
Eiji Suzuki, Takuji Narumi, Sho Sakurai, Tomohiro Tanikawa, Michitaka Hirose, *Japan.*

Basic study of Evoking An Emotion through Extending One's Body Image by Integration of Internal Sense and External Sense
Sho Sakurai, Takuji Narumi, Toki Katsumura, Tomohiro Tanikawa, Michitaka Hirose, *Japan.*

Enhancing Abstract Imaginations of Viewers of Abstract Paintings by a Gaze Based Music Generation System
Tatsuya Ogusu, Jun Ohya, Jun Kurumisawa, Shunichi Yonemura, *Japan.*

Using Wearables and Contextual Computing to Optimize Field Engineering Work Practices
Roberto S. Silva Filho, Ching-Ling Huang, Anuj Tewari, James Jobin, Piyush Modi, *United States.*

Presentation Method of Walking Sensation based on Walking Behavior Measurement with Inertial Sensors and Pressure Sensors
Kohei Ichihara, Koichi Hirota, Yasushi Ikei, Michiteru Kitazaki, *Japan.*

A Head-Up Display with Augmented Reality and Gamification for an E-Maintenance System: Using interfaces and Gamification to motivate workers in procedural tasks
Allan C.M Oliveira, Nahana Caetano, Leonardo Castro Botega, Regina Borges De Araujo, *Brazil.*

EPCE S162

Vision and cognition
Chair(s): Qianxiang Zhou, *P.R. China.*

Room: **LOS CERRITOS**

A Study of Multi-Target Visual Search by Eye Movement Behavior
Zhongqi Liu, Zhaofang Xu, Qianxiang Zhou, Fang Xie, Shihua Zhou, *P.R. China.*

Black or White? Influence of Robot Arm Contrast on Distraction in Human-Robot Interaction
Jonas Schmidler, Asuman Sezgin, Thomas Illa, Klaus Bengler, *Germany.*

Visual Comfort and Fatigue between Watching Linear Polarized and Circular Polarized LCD TVs as Measured by Eye Tracking
Yunhong Zhang, Chaoyi Zhao, Xin Zhang, *P.R. China.*

Visual Behavior Analysis of Human Performance in Precision Tasks
Nitesh Bhatia, Dibakar Sen, Anand V. Pathak, *India.*

Prevalence Effects in X-ray Screening Tasks with a Static or Dynamic Visual Display: Is There Any Difference?
Lingyu Wang, Xianghong Sun, *P.R. China.*

Effect of Icon Density and Color Contrast on Users' Visual Perception in Human Computer Interaction
Zhangfan Shen, Chengqi Xue, Jing Li, Xiaozhou Zhou, *P.R. China.*

UAHCI S163

Quantified Self & Personal Informatics
Chair(s): Alessandro Marcengo, *Italy*.

Room: **SAN GABRIEL A**

Thinking Outside of the Box or Enjoying Your 2 Seconds of Frame?
Per Bækgaard, Michael Kai Petersen, Jakob Eg Larsen, *Denmark*.

An IR view on Lifelogging
Till Plumbaum, Sahin Albayrak, *Germany*.

A Goal- and Context-driven Approach in Mobile Period Tracking Applications
Richard A Bretschneider, *Germany*.

Engaging Users in Self-Reporting their Data: a Tangible Interface for Quantified Self
Federico Sarzotti, Iliaria Lombardi, Amon Rapp, Alessandro Marcengo, Federica Cena, *Italy*.

A Virtual Reality Lower-back Pain Rehabilitation Approach: System Design and User Acceptance Analysis
Wu-Chen Su, *Taiwan*; Shih-Ching Yeh, *P.R. China*; Si-Huei Lee, Hsiang-chun Huang, *Taiwan*.

Analyzing the Design Space of Personal Informatics: A State-of-practice Based Classification of Existing Tools
Fredrik Ohlin, Carl M. Olsson, Paul Davidsson, *Sweden*.

Smart Mirror where I Stand, who is the Leanest in the Sand?
Marianna Saba, Riccardo Scateni, Fabio Sorrentino, Lucio Davide Spano, Sara Colantonio, Daniela Giorgi, Massimo Magrini, Ovidio Salvetti, Novella Buonaccorsi, Iliaria Vitali, *Italy*.

Unforeseen Challenges: Adopting Wearable Health Data Tracking Devices to Reduce Health Insurance Costs in Organizations
Mads Christophersen, Peter Mørck, Tue Odd Langhoff, Pernille Bjørn, *Denmark*.

S164

Human-Interface Research for Information Technology: Recent Advances in 3D and Head-mounted display (HMD)
Chair(s): Hiroki Takada, *Japan*; Sina Fateh, *United States*.

Room: **SAN GABRIEL B**

Numerical Analysis of Body Sway while Viewing a 3D Video Clip without Perspective Clues
Yuki Mori, Yoshiaki Maeda, Hiroki Takada, *Japan*.

A Virtual Reality System for Occupational Therapy with Hand Motion Capture and Force Feedback: a Pilot Study of System Configuration
Kouki Nagamune, Yosuke Uozumi, Yoshitada Sakai, *Japan*.

Effects of Superimposing Salient Graphics on Learning Material
Shu Matsuura, Takumi Shigihara, *Japan*.

Visual Pursuit of Two-dimensional/Three-dimensional Objects on Video Clips: Effects on the Human Body
Masumi Takada, Masaki Sakai, Masaru Miyao, Hiroki Takada, *Japan*.

A Study on Within-Subject Factors for Visually Induced Motion Sickness by Using 8K Display: Through Measurement of Body Sway Induced by Vection While Viewing Images
Hiromu Ishio, Tatsuya Yamakawa, Akihiro Sugiura, Kazuki Yoshikawa, Takehito Kojima, Shigeru Terada, Kunihiko Tanaka, Masaru Miyao, *Japan*.

A Temporal Analysis of Body Sway caused by Self-Motion during Stereoscopic Viewing
Akihiro Sugiura, Kunihiko Tanaka, Hiroki Takada, Takehito Kojima, Tatsuya Yamakawa, Masaru Miyao, *Japan*.

Effects of Two-Minute Stereoscopic Viewing on Human Balance Function
Kazuki Yoshikawa, Fumiya Kinoshita, Koji Miyashita, Akihiro Sugiura, Takehito Kojima, Hiroki Takada, Masaru Miyao, *Japan*.

S165

Engineering for Assistive Technology and Accessibility based on Human
Chair(s): Shunji Shimizu, *Japan*.

Room: **SAN GABRIEL C**

Toward a Piano Lesson System That Gives People with Reduced Cognitive Functioning a Sense of Accomplishment
Chika Oshima, Kimie Machishima, Koichi Nakayama, *Japan*.

Wide-Range Auditory Orientation Training System for Blind O&M
Yoshikazu Seki, *Japan*.

Consideration of Measuring Human Physical and Psychological Load Based on Brain Activity
Hiroaki Inoue, Shunji Shimizu, Ishihara Hiroataka, Yuuki Nakata, Hiroyuki Nara, Takeshi Tsuruga, Fumikazu Miwakeichi, Nobuhide Hirai, Kikuchi Kikuchi, Satoshi Kato, Eiju Watanabe, *Japan*.

A Method to Evaluate Intuitive Sense by Using a Robotic Tool: Towards Engineering for Assistive Technology and Accessibility
Gyanendra Nath Tripathi, *India*; Hiroaki Wagatsuma, *Japan*; Maya Ivanova Dimitrova, *Bulgaria*; Maria Vircikova, Peter Sincak, *Slovakia*.

An Electrooculography Analysis in the Time-Frequency Domain Using Morphological Component Analysis Toward the Development of Mobile BCI Systems
Balbir Singh, *India*; Guangyi Ai, *P.R. China*; Hiroaki Wagatsuma, *Japan*.

VAMR S166

PANEL: Working the Modes: Understanding the Value of Multiple Modalities of Technologies for Learning and Training Success
Chair(s): Julie N Salcedo, *United States*.

Room: **SANTA MONICA A**

Working the Modes – The Spectrum of Technology
Eileen Smith, *United States*.

Working the Modes – Performance and their Metrics as Foundation of Impact
Ronald Tarr, *United States*.

Working the Modes – Value of Immersive Technology
Michael Carney, *United States*.

Working the Modes – Effectiveness Measures in Training and Education
Cali M. Fidopiastis, *United States*.

CCD S167

Cross-Cultural Design

Living in the Smart World
Chair(s): P. L. Patrick Rau, *P.R. China*.

Room: **SANTA MONICA B**

Field Study on College Students' Uses and Gratifications of Multitasking Interaction with Multiple Smart Devices
Yubo Zhang, P. L. Patrick Rau, *P.R. China*.

"Break the Language Great Wall" (RedClay): The Language Learning Application
Ting-Yu Tony Lin, *Taiwan*; Benoit Serot, Maxime Verlhac, Marie Maniglier, *France*; Na Sun, P. L. Patrick Rau, *P.R. China*.

Culturally Appropriate Design of Mobile Learning Applications in the Malaysian Context
Shamsul Arrieya Ariffin, *Malaysia*; Laurel Evelyn Dyson, *Australia*.

"Faith to go or Devil's Work" – Social Media Acceptance in Taboo-Related Usage Contexts
Judith Leckebusch, Sylvia Kowalewski, Chantal Lidynia, Martina Ziefle, *Germany*.

Social Media Design Requirements for the Collectivist International Students
Kanrawi Kitkhachonkunlaphat, Mihaela Vorvoreanu, *United States*.

AC S168

Augmented Cognition

Operational Neuroscience - II
Chair(s): Rodolphe J. Gentili, *United States*.

Room: **PALOS VERDES**

Prolonged Physical Effort Affects Cognitive Processes during Special Forces Training
Clayton Domingues, Esmaela Domingues, Osvaldo Nascimento, Nilton Rolim Filho, Jorge Annunziato, Jorge Rebelo, *Brazil*; Seth Nieman, Kyle J. Jaquess, Rodolphe J. Gentili, Bradley Hatfield, *United States*.

Using Behavioral Information to Contextualize BCI Performance
Stephen M. Gordon, Jonathan R. McDaniel, Jason S. Metcalfe, Antony D. Passaro, *United States*.

A Composite Cognitive Workload Assessment System in Pilots Under Various Task Demands using Ensemble Learning
Hyuk Oh, Bradley Hatfield, Kyle J. Jaquess, Li-Chuan Lo, Ying Ying Tan, Michael Prevost, Jessica Mohler, Hartley Postlethwaite, Jeremy Rietschel, Matthew Miller, Justin Blanco, Shuo Chen, Rodolphe J. Gentili, *United States*.

Brain-in-the-loop learning using fNIR and Simulated Virtual Reality Surgical Tasks: Hemodynamic and Behavioral Effects
Patricia Shewokis, Hasan Ayaz, Lucian Panait, Yichuan Liu, Mashaal Syed, Lawrence Greenawald, Fiza Shariff, Andres Castellanos, Scott Lind, *United States*.

How low can you go? Empirically Assessing Minimum Usable DAQ Performance for Highly Fieldable EEG Systems
W. David Hairston, Vernon Lawhern, *United States*.

S169

Cognitive Performance in Human Systems Integration in Aviation
Chair(s): Banu Onaral, *United States*.

Room: **BEAUDRY B**

Error Visualization and Information-Seeking Behavior for Air-vehicle Control
Lewis L. Chuang, *Germany*.

Neural Adaptation to a Working Memory Task: a Concurrent EEG-fNIRS Study
Yichuan Liu, Hasan Ayaz, Banu Onaral, Patricia Shewokis, *United States*.

Using Context to Optimize a Functional State Estimation Engine in Unmanned Aircraft System Operations
Kevin T. Durkee, Scott Pappada, Andres Ortiz, John Feeney, Scott Galster, *United States*.

Monitoring Mental States of the Human Brain in Action: from Cognitive Test to Real-world Simulations
Deepika Dasari, Guofa Shou, Lei Ding, *United States*.

Investigation of Functional Near Infrared Spectroscopy in Evaluation of Pilot Expertise Acquisition
Gabriela Hernandez-Meza, Lauren Slason, Hasan Ayaz, Patrick Craven, Kevin Oden, Kurtulus Izzetoglu, *United States*.

Live-Virtual-Constructive (LVC) Training in Air Combat: Emergent Training Opportunities and Fidelity Ripple Effects
Kelly Neville, Angus L. M. Thom McLean, Sarah Sherwood, Katherine Kaste, Melissa Walwanis, Amy Bolton, *United States*.

DHM S170

Designing for assisted living to support the health and safety of aging seniors
Chair(s): Anita Woll, *Norway*.

Room: **SANTA ANITA C**

Later Life: Living Alone, Social Connectedness and ICT
Alma L. Culén, *Norway*.

A Collaborative Change Experiment: Diagnostic Evaluation of Telecare for Elderly Home Dwellers
Suhas Govind Joshi, Anita Woll, *Norway*.

A Mobile Visual Diary for Personal Pain Management
Tor-Morten Grønli, *Norway*; Gheorghita Ghinea, Fotios Spyridonis, *United Kingdom*.

Mobile Application to Aid in the Prevention of Pressure Ulcers
Alvaro G Lima, Lara Araújo, Isabel Italiano, Luciano V. Araujo, *Brazil*.

Balancing Power Consumption and Data Analysis Accuracy through Adjusting Sampling Rates: Seeking for the Optimal Configuration of Inertial Sensors for Power Wheelchair Users
Tao Liu, Chuanwei Chen, Melicent King, Gang Qian, Jicheng Fu, *United States*.

Parameter Estimation from Motion Tracking Data
Csaba Antonya, Silviu Butnariu, Horia Beles, *Romania*.

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

DHM S171

Human Modeling of Traditional Arts and Technologies - IV
Chair(s): Akihiko Goto, *Japan*.

Room: **BEAUDRY A**

Brain Activity Analysis on "Kana-ami" Making Process
Zelong Wang, *P.R. China*; Kenichi Tsuji, Toru Tsuji, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Motion Analysis of Interval Time During "Kana-ami" Making Process
Zelong Wang, *P.R. China*; Kenichi Tsuji, Toru Tsuji, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Numerical Analysis on "Kana-ami" Structure between Expert and Non-Expert
Zelong Wang, *P.R. China*; Kenichi Tsuji, Toru Tsuji, Koji Ishizaki, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Experience Factors Influence on Motion Technique of "The Way of Tea" by Motion Analysis
Soutatsu Kanazawa, Tomoko Ota, *Japan*; Zelong Wang, *P.R. China*; Thodsaratpreeyakul Wiranpaht, *Thailand*; Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Visual Evaluation of "The Way of Tea" based on Questionnaire Survey between Chinese and Japanese
Soutatsu Kanazawa, Tomoko Ota, *Japan*; Zelong Wang, *P.R. China*; Rutchanee Korn Wongpajan, *Thailand*; Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

DUXU S172

Seeing the Visible and the Invisible
Chair(s): Tingyi Steffi Lin, *Taiwan*.

Room: **SANTA BARBARA A**

Beyond the Wall of Text: How Information Design Can Make Contracts User-Friendly
Stefania Passera, *Finland*.

Mapping Metaphors for the Design of Academic Library Websites
Ming-Hsin Phoebe Chiu, *Taiwan*.

Head Up Display in Automotive: A New Reality for the Driver
Annie Pauzié, *France*.

What Travelers Want: An Investigation into User Needs and User Wants on Display
Tingyi Steffi Lin, Chia-Nien Chang, *Taiwan*.

The Cold Desert of Software Reality
Jiří Bystrický, Jan Brejcha, *Czech Republic*.

S173

Designing and Evaluating User Experience (UX) in Interactive Systems
Chair(s): Claudia Zapata, Freddy Paz, José Antonio Pow-Sang, *Peru*; Cristian Rusu, *Chile*.

Room: **SANTA BARBARA B**

User Experience Evaluations: Challenges for Newcomers
Cristian Rusu, Virginia Rusu, Silvana Roncagliolo, Juan Apablaza, Virginia Zaraza Rusu, *Chile*.

A Holistic Approach to User Experience in the Context of an Academic Library Interactive System
Andrea Alessandro Gasparini, *Norway*.

Evaluating and Customizing User Interaction in an Adaptive Game Controller
Leonardo Torok, Mateus Pelegrino, Jefferson Lessa, Daniela Gorski Trevisan, Cristina Vasconcelos, Esteban Clua, Anselmo Montenegro, *Brazil*.

Capture and Analysis of Interaction Data for the Evaluation of User Experience with Mobile Devices
Artur Henrique Kronbauer, Diferson Machado, Celso A.S. Santos, *Brazil*.

Experimental Case Study of New Usability Heuristics
Freddy Paz, Freddy Asrael Paz, José Antonio Pow-Sang, *Peru*.

Integration of Usability and Agile Methodologies: a Systematic Review
Claudia Zapata, *Peru*.

Application of Dashboards and Scorecards for Learning Models IT Risk Management: A User Experience
Ernesto Celi, *Peru*.

S174

Interactions with Digital Art and Design
Chair(s): Scottie Chih-Chieh Huang, June-Hao Hou, *Taiwan*.

Room: **SANTA BARBARA C**

Heartbeat Jenga: a Biofeedback Board Game to improve Coordination and Emotional Control
Yu-Chun Huang, *Taiwan*; Chung-Hay Luk, *United States*.

Transparent Organ®: Designing luminaire Art Deco with Kinetic Interaction
Scottie Chih-Chieh Huang, *Taiwan*.

Incorporating Fictionality into the Real World with Transmedia Storytelling
Mizuki Sakamoto, Tatsuo Nakajima, *Japan*.

Re-Sequencing the Ludic Orchestra: Evaluating the Immersive Effects of Dynamic Music and Situational Context in Video Games
Hans-Peter Gasselseder, *Denmark*.

Designing an Interactive Map of Musical Culture and a Digital Humanity App
Sheng-Chih Chen, ChiungHui Hwang, *Taiwan*.

What About Document Folding? User Impressions and a Design Approach
Rodrigo Chamun, Angelina Ziesemer, Isabel H. Manssour, João B.S. de Oliveira, Milene S. Silveira, *Brazil*.

Design, User Experience, and Usability

THURSDAY 16:00 - 18:00

Distributed, Ambient and Pervasive Interactions

DAPI S175

Architecture and art in pervasive environments

Chair(s): Stelios C. Zerefos, Irene Mavrommati, Greece.

Room: **SANTA MONICA D**

Visualizing Human-Environment Interactions: Integrating Concepts and Techniques from HCI, Human Factors and Media Psychology

Bimal Balakrishnan, Loukas Kalisperis, Danielle Oprean, *United States.*

The Map as a Tool for Identifying Pervasive Interactions in Today's Home

Konstantinos A. Grivas, Stelios C. Zerefos, *Greece.*

Re-appropriating Old Furniture via IoT, in an Artistic Context: the Case of "DolceVita"

Irene Mavrommati, Konstantinos A. Grivas, *Greece.*

Art and Coffee in the Museum

Nikolaos Partarakis, Emmanouil Zidianakis, Margherita Antona, Constantine Stephanidis, *Greece.*

Human Aspects of Information Security, Privacy and Trust

HAS S176

Human Factors of Authentication

Chair(s): Yee-Yin Choong, Kristen Greene, *United States.*

Room: **SAN FERNANDO**

Privacy and Security in the Brave New World: The Use of Multiple Mental Models

Sandra Spickard Prettyman, Susanne Furman, Mary Frances Theofanos, Brian Stanton, *United States.*

What 4,500+ People Can Tell You – Employees' Attitudes toward Organizational Password Policy Do Matter

Yee-Yin Choong, Mary Frances Theofanos, *United States.*

Password Policy Languages: Usable Translation from the Informal to the Formal

Michelle Steves, Mary Frances Theofanos, Celia Paulsen, *United States;* Athos Ribeiro, *Brazil.*

Human Generated Passwords – the Impacts of Password Requirements and Presentation Styles

Paul Lee, Yee-Yin Choong, *United States.*

Effects of Password Permutation on Subjective Usability Across Platforms

Kristen Greene, *United States.*

The Authentication Equation: A Tool to Visualize the Convergence of Security and Usability of Text-Based Passwords

Cathryn Ploehn, Kristen Greene, *United States.*

HCI in Business

HCIB S177

Social media for business

Chair(s): Chih-Hung Peng, *Hong Kong;* Yi-Cheng Ku, *Taiwan.*

Room: **SAN PEDRO**

The Influence of Individual Affective Factors on the Continuous Use of Mobile Apps

Yi-Hsuan Yeh, Belinda Chen, Nien-Chu Wu, *Taiwan.*

The New Way of Social Connecting for the Elderly through Smart Home Applications

Rich C. Lee, *Taiwan.*

Mining Social Media for Enhancing Personalized Document Clustering

Chin-Sheng Yang, Pei-Chun Chang, *Taiwan.*

Research on Virtual Item Purchase Intention in Taking Part in Mobile Device Games: Taking the Middle and Old Aged Players for Example

Chia-Yu Kao, Chenwei Chiang, *Taiwan.*

Contribute Knowledge Continuously or Occasionally? Determining the Continuous Contributors in Opinion-Sharing Communities

Yi-Cheng Ku, *Taiwan;* Chih-Hung Peng, *Hong Kong;* Chih-Ping Wei, Yin-An Chen, *Taiwan.*

S178

HCI in electronic, mobile and ubiquitous commerce

Chair(s): Cheng Yi, *P.R. China;* Yan Li, *France.*

Room: **SAN BERNARDINO**

Digital Rights Strategies in a Virtual World Marketplace

Yuanrong Hu, Si Fan, QiuHong Wang, *P.R. China.*

A Study on Mobile Fitness Application Usage

Ben CF Choi, Nathaniel Lee, *Australia.*

Usage Diversity, Task Interdependence and Group Innovation

Yumei Luo, Cheng Zhang, Yunjie Xu, *P.R. China.*

The Moderating Role of Perceived Effectiveness of Provider Recommendations on Consumers' Satisfaction, Trust, and Online Repurchase Intention

Hongpeng Wang, Rong Du, Shizhong Ai, Zhe Chi, *P.R. China.*

The Influence of Location and Social Network on Customers' Acceptance of Mobile Marketing: Evidence from Group Buying Field Experiment

Xi Chen, RuiBin Geng, Chee Wei Phang, *P.R. China.*

Consumers' Purchase Intention of Online Product Customization Using Different Terminals with/without Default Template

Jiaheng Xie, Wangsheng Zhu, Kanliang Wang, *P.R. China.*

Consumer Adoption of Social Commerce

Nick Hajli, *United Kingdom;* Xiaolin Lin, *United States.*

THURSDAY 16:00 - 18:00

Learning and Collaboration Technologies

LCT S179

Adaptive and personalised learning

Chair(s): Roland Klemke, *Netherlands.*

Room: **LOS FELIZ**

A Student-Centered Hybrid Recommender System to Provide Relevant Learning Objects from Repositories

Paula A. Rodriguez Marin, Demetrio A. Ovalle, Néstor D. Duque, *Colombia.*

Supporting Golf Coaching and Swing Instruction with Computer-based Training Systems

Maria Riveiro, Anders Dahlbom, Rikard Köning, Ulf Johansson, Peter Brattberg, *Sweden.*

The Potential Use of the Flexilevel Test in Providing Personalised Mobile e-Assessments

Andrew Pyper, Mariana Lilley, Paul Wernick, Amanda Jefferies, *United Kingdom.*

Recommendation Engine for an Online Drill System

Toshikazu Iitaka, *Japan.*

Human-Human Interaction Modeling of Trainer

Hongjun Xue, Wenxin Zhang, Xiaoyan Zhang, *P.R. China.*

Adaptive and Personalized Educational Ubiquitous Multi-agent System using Context-Awareness Services and Mobile Devices

Oscar M. Salazar, Demetrio A. Ovalle, Néstor D. Duque, *Colombia.*

Model for Detecting Student Difficulties in Solving Formative Assessments

Camilo Alejandro Castillo Benavides, Néstor D. Duque, Andrés Fernando Salazar Marín, Valentina Tabares Morales, Demetrio A. Ovalle, *Colombia.*

Human Aspects of IT for the Aged Population

ITAP S180

Technology Interventions for Older Adults

Chair(s): Tracy L. Mitzner, *United States.*

Room: **SANTA MONICA C**

Implementing the SimpleC Companion: Lessons Learned from In-Home Intervention Studies

Chantal Kerssens, Renu Kumar, Anne Edith Adams, Camilla Knott, Wendy A. Rogers, *United States.*

Universal Design as an Approach to Technology Intervention for Seniors

Jon A. Sanford, *United States.*

Opportunities for Technology: Translating an Efficacious Intervention to Improve Medication Adherence among Older Adults

Kathie C. Insel, Jeannie K. Lee, Gilles O. Einstein, Daniel G. Morrow, *United States.*

The Design of Mobile Technology to Support Diabetes Self-Management in Older Adults

Laura A. Whitlock, Anne Collins McLaughlin, Maurita Harris, Jessica Bradshaw, *United States.*

The Role of Health Status in Older Adults' Perceptions of the Usefulness of E-health Technology

Ryan Best, Dustin J. Souders, Neil Charness, Tracy L. Mitzner, Wendy A. Rogers, *United States.*

Signing Off: Predicting Discontinued ICT Usage among Older Adults in Assisted and Independent Living - A Survival Analysis

Ronald Berkowsky, R.V. Rikard, Shelia Cotten, *United States.*



HCI	S181	S182	S183	S184
	<p>Human Aspects of Enterprise Information Systems Chair(s): Xiaowen Fang, Fan Zhao, <i>United States</i>.</p> <p>Room: SANTA BARBARA A</p>	<p>Civic Computing Chair(s): Elizabeth Mynatt, <i>United States</i>.</p> <p>Room: SANTA BARBARA B</p>	<p>Human-Robot Interaction Chair(s): Mitsuharu Matsumoto, <i>Japan</i>.</p> <p>Room: SANTA BARBARA C</p>	<p>Participatory and collaborative design Chair(s): Heli Kautonen, <i>Finland</i>.</p> <p>Room: SAN GABRIEL C</p>
	<p>Enterprise Systems for Florida Schools Mandy Lichtenstein, Kathleen Clark, <i>United States</i>.</p>	<p>Midtown Buzz: Bridging the Gap between Concepts and Impact in a Civic Computing Initiative Maribeth Gandy, Laurie Dean Baird, Laura Levy, Amy J. Lambeth, Elizabeth Mynatt, Russ Clark, Matt Sanders, <i>United States</i>.</p>	<p>Psychological Impact of Direct Communication and Indirect Communication through a Robot Mitsuharu Matsumoto, Hiroyuki Yasuda, <i>Japan</i>.</p>	<p>The Closer the Better: Effects of Developer-User Proximity for Mutual Learning Sturla Bakke, Tone Bratteteig, <i>Norway</i>.</p>
	<p>A conceptual model of Online Game Continuance Playing Fan Zhao, <i>United States</i>; Qingju Huang, <i>P.R. China</i>.</p>	<p>GT Journey: The Importance of Accessible Rich Data Sources to Enable Innovation Matt Sanders, Russ Clark, Brian Davidson, Siva Jayaraman, <i>United States</i>.</p>	<p>Enhancing Human Robot Interaction through Social Network Interfaces: a Case Study Laura Fiorini, Raffaele Limosani, Raffaele Esposito, Alessandro Manzi, Alessandra Moschetti, Manuele Bonaccorsi, Filippo Cavallo, Paolo Dario, <i>Italy</i>.</p>	<p>Extending MoLIC for Collaborative Systems Design Luiz Gustavo de Souza, Simone Diniz Junqueira Barbosa, <i>Brazil</i>.</p>
	<p>Post-Implementation ERP Success Assessment: a Conceptual Model Fan Zhao, Eugene Hoyt, <i>United States</i>.</p>	<p>The Convergence Innovation Competition: Helping Students Create Innovative Products and Experiences via Technical and Business Mentorship Russ Clark, Matt Sanders, Brian Davidson, Siva Jayaraman, Carl F. DiSalvo, <i>United States</i>.</p>	<p>User Experience Evaluation Towards Cooperative Brain-Robot Interaction Chris Crawford, Marvin Andujar, France L Jackson, Sekou Remy, Juan E. Gilbert, <i>United States</i>.</p>	<p>Guidelines to Integrate Professional, Personal and Social Context in Interaction Design Process: Studies in Healthcare Environment Janaina C. Abib, Junia Coutinho Anacleto, <i>Brazil</i>.</p>
	<p>The Role of Quality in Websites: A Discussion Focusing on Public versus Private Sector Organizations Hanne Sørum, <i>Norway</i>.</p>	<p>The Evolution of the Argon Web Framework through its Use Creating Cultural Heritage and Community-based Augmented Reality Applications Gheric Speiginer, Blair Macintyre, Jay Bolter, Hafez Rouzati, Amy J. Lambeth, Laura Levy, Laurie Dean Baird, Maribeth Gandy, Matt Sanders, Brian Davidson, <i>United States</i>; Maria Engberg, <i>Sweden</i>; Russ Clark, Elizabeth Mynatt, <i>United States</i>.</p>	<p>Biologically Inspired Artificial Endocrine System for Human Computer Interaction Hooman Samani, <i>Taiwan</i>; Elham Saadatian, <i>Singapore</i>; Brian Jalaeian, <i>United States</i>.</p>	<p>Designing Simulation-Based Training for Prehospital Emergency Care: Participation from a Participants Perspective Beatrice Alenljung, Hanna Maurin Söderholm, <i>Sweden</i>.</p>
	<p>Building Mobile Software Ecosystems – A Practical Approach Steffen Hess, Susanne Braun, Johannes Feldhaus, Marco Hack, Felix Kiefer, Dominik Magin, Matthias Naab, Dominik Richter, Torsten Lenhart, Marcus Trapp, <i>Germany</i>.</p>	<p>Cycle Atlanta and OneBusAway: Driving Innovation through the Data Ecosystems of Civic Computing Christopher A. Le Dantec, Kari E. Watkins, Russ Clark, Elizabeth Mynatt, <i>United States</i>.</p>	<p>COLUMN: Discovering the User Invented Behaviors Through the Interpersonal Coordination Yasutaka Takeda, Shotaro Baba, Ravindra S De Silva, Michio Okada, <i>Japan</i>.</p>	<p>Controlling the Home - A User Participatory Approach to Designing a Simple Interface for a Complex Home Automation System Martin B. Eskerud, Anders Skaalsveen, Caroline Sofie Olsen, Harald Holone, <i>Norway</i>.</p>
			<p>NAMIDA: Multiparty Conversation Based Driving Agents in Futuristic Vehicle Nihan Karatas, Soshi Yoshikawa, Ravindra S De Silva, Michio Okada, <i>Japan</i>.</p>	<p>Synchronization of Peripheral Vision and Wearable Sensors for Animal-to-Animal Interaction Ko Makiyama, Keijiro Nakagawa, Maki Katayama, Miho Nagasawa, Kaoru Sezaki, Hiroki Kobayashi, <i>Japan</i>.</p>
			<p>Using Gesture-Based Interfaces to Control Robots Gabriel M. Bandeira, Michaela Carmo, Bianca H. Ximenes, Judith Kelner, <i>Brazil</i>.</p>	<p>Playing Dice with a Digital Library: Analysis of an Artist Using a New Information Resource for Her Art Production Heli Kautonen, <i>Finland</i>.</p>



Human Interface and the Management of Information

HIMI S185

Service, Design, Interaction

Chair(s): Hirohiko Mori, *Japan*.

Room: **SANTA ANITA A**

Representation Model of Collaboration Mechanism with Chanel Theory

Patchanee Patitad, Hidetsugu Suto, *Japan*.

Improving Service Quality by Prioritizing Service Attributes Using SERVQUAL and Kano Model - A Case Study of Nursing Home in Taiwan

Chin-Mei Chou, Cindy Sutanto, Shu-Kai Wu, *Taiwan*.

Situational Transformation of Personal Space

Yosuke Kinoe, Nami Mizuno, *Japan*.

A Filtering System of Web History using the Browsing Characteristic

Keita Arai, Makoto Oka, Hirohiko Mori, *Japan*.

Proposal of a Visualization Method to Support Informal Communication Using Twitter Attribute

Ryota Sasajima, Kohei Otake, Makoto Oka, Akito Sakurai, *Japan*.

Scene Feature Recognition-enabled Framework for Mobile Service Information Query System

Yi-Chong Zeng, Ya-Hui Chan, Ting-Yu Lin, Meng-Jung Shih, Pei Yu Hsieh, Guan-Lin Chao, *Taiwan*.

EPCE S186

Design, Interaction and Cognition

Chair(s): Atsuo Murata, *Japan*.

Room: **LOS CERRITOS**

The Analysis of Human Error Prevention Strategies in Military Aviation

Shu-Chiang Lin, Jeng-Chung Chen, *Taiwan*; Wen-Chin Li, *United Kingdom*.

A CMF Database Framework Design - A Case of Application of User Mental Model

Jikun Liu, Chenyu Zhao, Hengfeng Zuo, *P.R. China*.

Primacy of Immediate Reward underlying Violation - Basic Study on Safety Management -

Atsuo Murata, Yukio Ohta, Makoto Moriwaka, *Japan*.

Military Vehicle Dashboard Design using Semantics Method in Cognitive Ergonomics Framework

Billy Muhamad Iqbal, Amalia Suzianti, Boy Nurtjahyo, *Indonesia*.

Bridging the Research-Practice Gap: Validity of a Software tool Designed to support Systemic Accident Analysis by Risk Managers

Natassia Goode, Paul M. Salmon, Natalie Z. Taylor, Michael G. Lenne, Caroline F. Finch, *Australia*.

UAHCI S187

Sensors and Mobile Applications for Human-Computer Interaction

Chair(s): João M.F. Rodrigues, Pedro J.S. Cardoso, *Portugal*.

Room: **SAN GABRIEL A**

A Proposed Dynamical Analytic Method for Characteristic Gestures in Human Communication

Toshiya Naka, Toru Ishida, *Japan*.

Immersive Interaction Paradigms for Controlling Virtual Worlds by Customer Devices Exemplified in a Virtual Planetarium

Andreas Schaller, Tim Biedenkapp, Jens Keil, Dieter W. Fellner, Arjan Kuijper, *Germany*.

Biologically Inspired Vision for Human-Robot Interaction

Mario Saleiro, Miguel Farrajota, Kasim Terzic, Sai Krishna, João M.F. Rodrigues, Hans Du Buf, *Portugal*.

Interactive 3D Digitization, Retrieval, and Analysis of Ancient Sculptures, using Infrared Depth Sensors for Mobile Devices

Angelos Barmpoutis, Eleni Bozia, *United States*; Daniele Fortuna, *Italy*.

A Freehand System for the Management of Orders Picking and Loading of Vehicles

Pedro J.S. Cardoso, João M.F. Rodrigues, Luis Carlos Sousa, Andriy Mazayev, Emanuel Ey, *Portugal*; Tiago Corrêa, *Brazil*; Mario Saleiro, *Portugal*.

'Weather' Wearable System: a Design Exploration to Facilitate the Collaboration and Communication with Chronic Pain Patients

Xin Tong, Diane Gromala, Amber Choo, Mahsoo Salimi, Jeewon Lee, *Canada*.

S188

Ergonomics in Architecture - I

Chair(s): Jerzy Charytonowicz, Anna Jaglarz, *Poland*.

Room: **SAN GABRIEL B**

Designing Kitchens for Small Domestic Spaces

Przemyslaw Nowakowski, *Poland*.

Shaping of the Architectural Detail in View of Energy Saving

Andrzej Skowronski, Maciej Skowronski, *Poland*.

The Human Factor in the Revitalization of the Historic Polish Cities

Robert Masztalski, *Poland*.

The Effect of Technological Progress on the Quality and Aesthetics of Modern Sanitary Facilities

Anna Jaglarz, Jerzy Charytonowicz, *Poland*.

Development of the Ecological Bathroom Ideas

Anna Jaglarz, *Poland*.

Quality Analysis of Polish Universities Based on POE Method - Description of Research Experiences

Dorota Winnicka-Jasłowska, *Poland*.

Flexibility as an Instrument of Social Stabilization of Residential Environment

Wojciech Bonenberg, *Poland*.

FRIDAY 8:00 - 10:00

Virtual, Augmented and Mixed Reality

VAMR S189

3D Virtual Environment

Chair(s): João Luiz Bernardes Jr, Brazil.

Room: **SANTA MONICA A**

Effect of 3D Projection Mapping Art: Digital Surrealism

Soyoung Jung, Frank Biocca, *United States*; Daeun Lee, *Korea*.

Human Factors and Interaction Strategies in Three-Dimensional Virtual Environments to Support the Development of Digital Interactive Therapeutic Toy: A Systematic Review

Eunice Pereira dos Santos Nunes, Eduardo Lemos, Cristiano Maciel, Clodoaldo Nunes, *Brazil*.

The Virtual Dressing Room: A Usability and User Experience Study

Michael Boelstoft Holte, Yi Gao, Eva Petersson Brooks, *Denmark*.

Development and Evaluation of an Easy-to-Use Stereoscopic Ability Test to Assess the Individual Ability to Process Stereoscopic Media

Daniel Pietschmann, Benny Liebold, Peter Ohler, Georg Valtin, *Germany*.

Local 3D Pose Estimation of Feature Points Based on RGB-D Information for Object Based Augmented Reality

Daniel M Tokunaga, Ricardo Nakamura, João Luiz Bernardes Jr, Edith Ranzini, Romero Tori, *Brazil*.

Cross-Cultural Design

CCD S190

Research on User Experience Oriented Service Design - I

Chair(s): Binbin Li, Qijun Duan, *P.R. China*.

Room: **BEAUDRY A**

User's Individual Needs Oriented Parametric Design Method of Chinese Fonts

Qijun Duan, Xiaoli Zhang, *P.R. China*.

Investigation into Designing of Elderly Products Intending for the User's Behavior Experiencing

Ning Zhang, Yajun Li, Ming Zhou, Zhizheng Zhang, *P.R. China*.

Research on Service-driven Feature of Industrial Designers under the Background of Industry Convergence

Qing Zhang, Chen Cheng, Junnan Ye, Wei Ding, *P.R. China*.

A Product Service System Design for Fitness Activities Based On Active Ageing - A Proposal of Fitness for Xishan Style Council

Yin Liang, *P.R. China*; Davide Fassi, *Italy*.

The Service System Study on Children's Hospital-Bed Nursing Based on Multi-Level Experience

Linghao Zhang, Chang Zhang, Sheng Huang, Sichun Xiao, *P.R. China*.

Augmented Cognition

AC S191

Neuro-cognitive mechanisms of learning optimization

Chair(s): Ion Juvina, Priya Ganapathy, *United States*.

Room: **SANTA ANITA B**

A Neurocognitive Approach to Expertise in Visual Object Recognition

Assaf Harel, *United States*.

Development of a Smart Tutor for a Visual-Aircraft Recognition Task

Priya Ganapathy, Ion Juvina, Tejaswi Tamminedi, Gautam Kunapuli, Matt Sherwood, Mohammad Usmani, *United States*.

Predicting Learner Performance using a Paired Associate Task in a Team-Based Learning Environment

Othalia Larue, Ion Juvina, Gary Douglas, Albert Simmons, *United States*.

DataShopping for Performance Predictions

Michael Collins, Kevin Gluck, Tiffany Jastrzemski, *United States*.

Neurocognitive Correlates of Learning in a Visual Object Recognition Task

Ion Juvina, Priya Ganapathy, Matt Sherwood, Mohammad Usmani, Gautam Kunapuli, Tejaswi Tamminedi, Nasser Kashou, *United States*.

Optimization-based training in ATM

Amela Karahasanovic, Tomas Erik Nordlander, Patrick Schittekat, *Norway*.

S192

Adaptive Automation and Human Multi-Agent Control

Chair(s): Robert Abbott, *United States*.

Room: **SANTA ANITA C**

Bracketing Human Performance to Support Automation for Workload Reduction: A Case Study

Robert Wray, Ben Bachelor, Randolph Jones, Charles Newton, *United States*.

Enhanced Physical Security through a Command-Intent Driven Multi-Agent Sensor Network

Joshua A Love, Wendy Amai, Timothy Blada, Charles Little, Jason Neely, Stephen Buerger, *United States*.

Transitioning from Human to Agent-Based Role-Players for Simulation-Based Training

Robert Abbott, Christina Warrender, Kiran Lakkaraju, *United States*.

Adapting Immersive Training Environments to Develop Squad Resilience Skills

Joan H. Johnston, Samantha Napier, William A. Ross, *United States*.

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

DHM S193

Human Modeling for Quality Care - I
Chair(s): Noriaki Kuwahara, *Japan*.

Room: **PALOS VERDES**

Development of a Self-Learning System for Chest Auscultation Skills using an RFID Reader for Nursing Students
Mitsuhiro Nakamura, Kyohei Koyama, Yasuko Kitajima, Jukai Maeda, Masako Kanai-Pak, *Japan*.

Caregiver`s Eye Gaze and Field of View Presumption Method during Bathing Care in Elderly Facility
Akiyoshi Yamamoto, Tatsunori Azuma, Henry Cereno Barrameda Jr., Noriyuki Kida, Akihiko Goto, Tomoko Ota, *Japan*.

Research of Work Climate at Nursing Home - From Job Separation and Management Capability Point
Akiyoshi Yamamoto, Tomoko Ota, Akihiko Goto, Noriyuki Kida, Hiroyuki Hamada, Henry Cereno Barrameda Jr., Tatsunori Azuma, *Japan*.

The Transfer of Expertise in Conducting a Participatory Music Therapy during a Combined Rehabilitation-Recreational Program in an Elderly Care Facility
Akiyoshi Yamamoto, Henry Cereno Barrameda Jr., Tatsunori Azuma, Hideaki Kasasaku, Kayoko Hirota, Momo Jinno, Maki Sumiyama, Tomoko Ota, Akihiko Goto, Noriyuki Kida, Noriaki Kuwahara, Hiroyuki Hamada, *Japan*.

Usefulness of Ikebana a Nursing Care Environment
Yuki Ikenobo, Yusaku Mochizuki, Noriaki Kuwahara, *Japan*.

The Digital Reminiscence Method: Effects on Dementia in Japanese Day Care Centers
Masayuki Nakamura, Takashi Yoshikawa, Kayo Tanaka, *Japan*; Mengyuan Liao, *P.R. China*; Noriaki Kuwahara, *Japan*.

S194

Ergonomic Assessments using Advanced Virtual Prototyping Technique
Chair(s): Satoshi Kanai, *Japan*.

Room: **SAN FERNANDO**

The Role of Virtual Ergonomic Simulation to Develop Innovative Human Centered Products
Daniele Regazzoni, Caterina Rizzi, Giorgio Colombo, *Italy*.

Estimation of Arbitrary Human Models from Anthropometric Dimensions
Yui Endo, Mitsunori Tada, Masaaki Mochimaru, *Japan*.

Optimisation of Product`s Hand-Handle Interface Material Parameters for Improved Ergonomics
Gregor Harih, Matej Borovinšek, Zoran Ren, *Slovenia*.

Body Tracking as a Generative Tool for Experience Design
Monica Bordegoni, Serena Camere, Giandomenico Caruso, Umberto Cugini, *Italy*.

MoCap-Based Adaptive Human-Like Walking Simulation in Laser-Scanned Large-Scale as-Built Environments
Tsubasa Maruyama, Satoshi Kanai, Hiroaki Date, *Japan*.

Estimating Ergonomic Comfort during the Process of Mechanism Design by Interaction with a Haptic Feedback-System - Evaluation of Simulated and Kinesthetically Displayed Mechanisms using the Haptic Feedback System RePlaLink
Thomas Kölling, Michael Krees, Mathias Hüsing, Burkhard Corves, *Germany*.

An Approach for Intuitive Visualization of Ergonomic Issues
Walentin Heft, Michael Spitzhirm, Angelika Bullinger-Hoffmann, Paul Rosenthal, *Germany*.

Distributed, Ambient and Pervasive Interactions

DAPI S195

Modeling Humor in Smart Environments
Chair(s): Anton Nijholt, *Netherlands*.

Room: **SANTA MONICA D**

Laughter as the Best Medicine: Exploring Humour-Mediated Health Applications
Claire Dormann, *Canada*.

On Algorithmic Discovery and Computational Implementation of the Opposing Scripts Forming a Joke
Victor Raskin, *United States*.

Different Knowledge, Same Joke: Response-Based Computational Detection of Humor
Julia Taylor, *United States*.

Twitter: The Best of Bot Worlds for Automated Wit
Tony Veale, Alessandro Valitutti, Guofu Li, *Ireland*.

An AI for Humorously Reframing Interaction Narratives with Human Users
Christian F. Hempelmann, Max Petrenko, *United States*.

Humor Techniques: From Real World and Game Environments to Smart Environments
Anton Nijholt, *Netherlands*.

HCI in Business

HCIB S196 continues...

Mining on Big Data for Decision Support
Chair(s): I-Chin Wu, Tzu-Li Chen, *Taiwan*.

Room: **SAN PEDRO**

What Do Patients of Different Medical Illness Say About Their Doctors Online? An Analysis of Online Physician Reviews
Ming-Hsin Phoebe Chiu, Chia-Lin Chang, *Taiwan*.

Rule-based Medical Decision Support Portal for the Emergency Department
I-Chin Wu, Tzu-Li Chen, Yen-Yi Feng, Ya-Ling Cheng, Yung-Chih Chuang, *Taiwan*.

A Dynamic Weighted Majority Algorithm for Dynamic Data Relationships Concept Drift Detection
Szu-Yin Lin, Chun-Hsian Lin, *Taiwan*.

Topic-Based Stance Mining for Social Media Texts
Wei-Fan Chen, Yann-Hui Lee, Lun-Wei Ku, *Taiwan*.

A Comparison of Hybrid Neural Network Based Breast Cancer Diagnosis Systems
Hsine-Jen Tsai, Hao-Chun Lu, Tung-Huan Wu, Chiang-Sheng Lee, *Taiwan*.



HCIB S197

HCI in pervasive, social and mobile computing

Chair(s): Chee Wei Phang, P.R. China; Juliana Sutanto, Switzerland.

Room: **SAN BERNARDINO**

Designing Mobile Applications for Organizational Routines

Kenny Lienhard, Thomas Boillat, Christine Legner, Switzerland.

A Critical Examination of the Causes of Failed IS Implementation: A Review of the Literature on Power and Culture

Hassan Aldarbesti, Lazaros Goutas, Juliana Sutanto, Switzerland.

Understanding the 'Quality Motion' of Wikipedia Articles through Semantic Convergence Analysis

Huijing Deng, Bernadetta Tarigan, Mihai Grigore, Juliana Sutanto, Switzerland.

Cross-Cultural Research in IS: An Updated Review since 2005

Yi Liu, Bouchaib Bahli, Hans Borgman, France.

The Role of Brand Loyalty and Social Media in e-Commerce Interfaces: Survey Results and Implications for User Interfaces

Dimitrios Rigas, Hammad Akhtar Hussain, United Kingdom.

LCT S198

Learning and Collaboration Technologies

Impact of Social Networks on Education Teaching / Learning Methodologies

Chair(s): Habib M. Fardoun, Saudi Arabia.

Room: **LOS FELIZ**

Ontological Design to support Cognitive Plasticity for Creative Immersive Experience in Computer Aided Learning

Niki Lambropoulos, Iosif Mporas, Greece; Habib M. Fardoun, Iyad Katib, Saudi Arabia.

What Do My Colleagues Know? Dealing with Cognitive Complexity in Organizations through Visualizations

André Calero Valdez, Simon Bruns, Christoph Greven, Ulrik Schroeder, Martina Ziefle, Germany.

The Visual Design and Implementation of an Embodied Conversational Agent in a Shared Decision-Making Context (eCoach)

Scott L. Robertson, Rob Solomon, Mark Riedl, Theresa Wicklin Gillespie, Toni Chociemski, Viraj Master, Arun Mohan, United States.

Just-in-Case or Just-in-Time Training? – Excerpts from a Doctoral Research Study

Devshikha Bose, United States.

Construction of Educative Micro-Worlds to Build Students' Creativity in terms of their own Self-Learning

Habib M. Fardoun, Abdullah AL-Malaise AL-Ghamdi, Saudi Arabia; Antonio Paules Cipres, Spain.

Creation of Meaningful-Learning and Continuous Evaluation Education System

Habib M. Fardoun, Abdullah Albarakati, Saudi Arabia; Antonio Paules Cipres, Spain.

ITAP S199

Human Aspects of IT for the Aged Population

Human factors in an ageing society

Chair(s): Martina Ziefle, Germany.

Room: **BEAUDRY B**

Influence of Mobile ICT on the Adherence of Elderly People with Chronic Diseases

Alexander Mertens, Peter Rasche, Sabine Theis, Matthias Wille, Christopher M. Schlick, Stefan Becker, Germany.

Smart Textiles as Intuitive and Ubiquitous User Interfaces for Smart Homes

Julian Hildebrandt, Philipp Brauner, Martina Ziefle, Germany.

Pitfalls when Placing Electricity Pylons - the Influence of Age on Acceptance

Barbara S. Zaunbrecher, Katrin Arning, Baris Özalay, Hendrik Natemeyer, Martina Ziefle, Germany.

Older Users' Rejection of Mobile Health Apps. A Case for a Stand-Alone Device?

André Calero Valdez, Martina Ziefle, Germany.

Technology Generation and Media usage in B-2-B Communication: a cross-cultural view

Martina Ziefle, Vanessa Cabral, Judith Leckebusch, Toni Drescher, Germany.

Validation of the Computer Literacy Scale (CLS)

Michael Sengpiel, Nicole Jochems, Germany.

Collecting Old People's Data for More Accessible Design: a Pilot Study

Weining Ning, Hua Dong, P.R. China.

FRIDAY 8:00 - 10:00

HCI S200

Distributed, multiplatform, multidevice and composite interfaces

Chair(s): To be announced.

Room: **SANTA BARBARA A**

A Framework for Distributing and Migrating the User Interface in Web Apps

Antonio Peñalver Benavent, David Nieves, Federico Botella, *Spain*.

Delegation Theory in the Design of Cross-Platform User Interfaces

Dagmawi L. Gobena, *Ethiopia*; Gonçalo N.P. Amador, Abel J.P. Gomes, *Portugal*; Dejene Ejigu, *Ethiopia*.

A Model-based Framework for Multi-adaptive Migratory User Interfaces

Enes Yigitbas, Stefan Sauer, Gregor Engels, *Germany*.

Current Challenges in Compositing Heterogeneous User Interfaces for Automotive Purposes

Tobias Holstein, *Germany*; Markus Wallmyr, *Sweden*; Joachim Wietzke, *Germany*; Rikard Land, *Sweden*.

Multimodal Interaction Flow Representation for Ubiquitous Environments – MIF: A case Study in Surgical Navigation Interface Design

Gul Tokdemir, Gamze Altun, Nergiz E. Cagiltay, Hakan Maras, Alp Ozgun Borcek, *Turkey*.

Automatic Deformations Detection in Internet Interfaces: ADDII

Leandro Dos Reis Sanchez, Plinio Thomaz Aquino Junior, *Brazil*.

S201

HCI Design methods and tools

Chair(s): Abbas Moallem, *United States*.

Room: **SANTA BARBARA B**

Creating Personas to Reuse on Diversified Projects

Andrey A Masiero, Plinio Thomaz Aquino Junior, *Brazil*.

Towards the Evaluation of Emotional Interfaces

Damien Lockner, Nathalie Bonnardel, *France*.

Practices, Technologies, and Challenges of Constructing and Programming Physical Interactive Prototypes

Andrea Alessandrini, *United Kingdom*.

Toward Usable Intelligent User Interface

Nesrine Mezhoudi, Iyad Khaddam, Jean Vanderdonckt, *Belgium*.

Heuristics for NUI Revisited and Put into Practice

Vanessa Maike, Laurindo S Britto Neto, Siome Goldenstein, M. Cecilia C. Baranauskas, *Brazil*.

Reduce Complexity by Increasing Abstraction in Interactive Visual Components

Pedro M. Teixeira-Faria, *Portugal*; Javier Rodeiro-Iglesias, *Spain*.

Concrete or Abstract User Interface?

Abbas Moallem, *United States*.

S202

Mobile interaction

Chair(s): Sebastien Kubicki, *France*.

Room: **SANTA BARBARA C**

It's Not What it Speaks, But It's How it Speaks: A study into Smartphone Voice-User Interfaces (VUI)

Jaeyeol Jeong, DongHee Shin, *Korea*.

Designing of a Natural Voice Assistants for Mobile through User Centered Design Approach

Sanjay Ghosh, Jatin Pherwani, *India*.

Spatial Arrangement of Data and Commands at Bezels of Mobile Touchscreen Devices

Toshifumi Kurosawa, Buntarou Shizuki, Jiro Tanaka, *Japan*.

On the Usability of Smartphone Apps in Emergencies: An HCI analysis of GDACSmobile and SmartRescue apps

Parvaneh Sarshar, Vimala Nunavath, Jaziar Radianti, *Norway*.

RICHIE: a Step-by-step Navigation Widget to Enhance Broad Hierarchy Exploration on Handheld Tactile Devices

Alexandre Kabil, Sebastien Kubicki, *France*.

A Study of the Interactive Application in Aquarium Exhibit

Linye Zhang, Young Mi Choi, *United States*.

HIMI S203

Human Factors in Design and Evaluation of Human-Computer Interaction

Chair(s): Makoto Itoh, *Japan*; Sandrine Fischer, *United States*; Huiping Zhou, *Japan*.

Room: **SANTA ANITA A**

An Analysis of Ear Plethysmogram for Evaluation of Driver's Mental Workload Level

Ahmad Khushairy Makhtar, Makoto Itoh, *Japan*.

Effect of adaptive caution on driver's Lane-change behavior under cognitively distracted condition

Huiping Zhou, Makoto Itoh, *Japan*.

URU: A Platform for Prototyping and Testing Compatibility of Multifunction Interfaces with User Knowledge Schemata

Sandrine Fischer, Blaine Oelkers, Mitchell R Fierro, *United States*; Makoto Itoh, *Japan*; Eric White, *United States*.

Self-Perception of Assister Driver Responsibility and Contribution in Mutual Assistance

Sui Kurihashi, Yutaka Matsuno, Kenji Tanaka, *Japan*.

Driving Evaluation of Mild Unilateral Spatial Neglect Patients - Three high-risk cases undetected by BIT after recovery

Tasuku Sotokawa, Takuya Murayama, Junko Noguchi, Yoko Sakimura, Makoto Itoh, *Japan*.

Generation of Infotips from Interface Labels

Eric White, Sandrine Fischer, Foad Khosmood, *United States*.



HIMI S204

Interacting with text and knowledge

Chair(s): Tao Zhang, *United States.*

Room: **SANTA ANITA B**

Fusing Text and Image Data with the Help of the OWLnotator

Giuseppe Abrami, Alexander Mehler, Dietmar Pravida, *Germany.*

A General Framework for Text Document Classification Using SEMCON and ACVSR

Zenun Kastrati, Ali Shariq Imran, Sule Yildirim-Yayilgan, *Norway.*

Reading through Graphics: Interactive Landscapes to Explore Dynamic Topic Spaces

Eva Ulbrich, Eduardo E. Veas, Santok Singh, Vedran Sabol, *Austria.*

Towards a Class-Based Model of Information Organization in Wikipedia

Michael Gilbert, Mark Zachry, *United States.*

Search in One's Hand: How Users Search a Mobile Library Catalog

Tao Zhang, Xi Niu, Liugen Zhu, Hsin-liang Chen, *United States.*

Seed, a Natural Language Interface to Knowledge Bases

Bahaa Eldesouky, Heiko Maus, Sven Schwarz, Andreas Dengel, *Germany.*

UAHCI S205

Haptics for Assistive, Rehabilitative and Healthcare Technologies

Chair(s): Troy McDaniel, Shamima Yasmin, Sethuraman Panchanathan, *United States.*

Room: **SAN GABRIEL A**

Virtual Liver Surgical Simulator by using Z-buffer for Object Deformation

Katsuhiko Onishi, Hiroshi Noborio, Masanao Koeda, Kaoru Watanabe, Kiminori Mizushino, Takahiro Kunii, Masaki Kaibori, Kosuke Matsui, Masanori Kon, *Japan.*

The Benefits of Haptic Feedback in Telesurgery and other Teleoperation Systems: A Meta-analysis

Bernhard Weber, Clara Eichberger, *Germany.*

Multimodal Feedback for Balance Rehabilitation

Bruce J P Mortimer, *United States;* Brad McGrath, *Australia;* Greg Mort, Gary Zets, *United States.*

Haptics-Enabled Surgical Training System with Guidance of Machine Learning

Ehren Biglari, Marie Feng, John Quarles, Edward Sako, John Calhoon, Ronald Rodriguez, Yusheng Feng, *United States.*

Finding Favorable Textures for Haptic Display

Hee Jae Amy Hwang, Da Young Ju, *Korea.*

S206

Ergonomics in Architecture - II

Chair(s): Jerzy Charytonowicz, Agata Bonenberg, *Poland.*

Room: **SAN GABRIEL B**

Ergonomics of the Urban Villa's Form as an Element of Sustainable Architectural and Urban Design

Pawel Horn, *Poland.*

Ergonomic Aspects of the Architectural Designing of the Stairs in the Spaces for the Great Public Gathering

Zdzisław Lesław Pelczarski, *Poland.*

Does a Computer have Control over an Architect? Reflections on the Example of Sports Arenas

Nina Juzwa, Katarzyna Ujma-Wasowicz, Adam Gil, *Poland.*

Some Paradoxical Aspects of the Use of Computers for Architectural and Structural Design

Romuald Tarczewski, *Poland.*

Changes in Shaping the Banking Environment

Krystyna Strumiłło, *Poland.*

The Impact of Solar Radiation on the Quality of Buildings: Research Methods

Dariusz Masły, Michał Sitek, Klaudiusz Fross, *Poland.*

Aiding self-reliance of the elderly and the disabled - Modular Cupboard with Mobile Internal Units

Agata Bonenberg, *Poland.*

Typology and Ergonomics of Rooms in Contemporary Hotel

Elzbieta Trocka-Leszczynska, Joanna Jablonska, *Poland.*

S207

Interacting with Culture: a way to enhance the experience with Cultural Heritage

Chair(s): Maria Fernanda Cabrera-Umpierrez, *Spain.*

Room: **SAN GABRIEL C**

Developing the COOLTURA Resources-Driven Governance Model for Building Scalable Cultural Services in the COOLTURA Platform

Maria Eugenia Beltrán, Yolanda Ursa, Silvia De los Rios, Maria Fernanda Cabrera-Umpierrez, Maria Teresa Arredondo, María Del Mar Villafranca, Lucia María Perez, Belén Prados, Carlos Lli Torrabadella, *Spain.*

From Trebizond to Al-Andalus: Visualizing the Late Medieval Mediterranean

Eurydice Georganteli, Ioanna N. Koukouni, *United Kingdom.*

Making Blind People Autonomous in the Exploration of Tactile Models: a Feasibility Study

Francesco Buonamici, Rocco Furferi, Lapo Governi, Yary Volpe, *Italy.*

The Expansion of a Scheme about ACCESSIBILITY in Tourism at the Cultural Sector

Eleni Chalkia, Evangelos Bekiaris, Maria Panou, Matina Loukea, *Greece.*

Living Lab Concept Validation Experiment to Experience COOLTURA in the Cité des Science et de l'Industrie

Silvia De los Rios, Maria Fernanda Cabrera-Umpierrez, Maria Teresa Arredondo, Miguel Páramo, *Spain;* Charles A. Tijus, Elhadi Djebbari, *France;* Federico Mussano, Roberto Santoro, *Italy.*

Universal Access in Human-Computer Interaction

FRIDAY 10:30 - 12:30

Virtual, Augmented and Mixed Reality

VAMR S208

Developing virtual environments

Chair(s): David Novick, *United States*.

Room: **SANTA MONICA A**

Delta Global Illumination for Mixed Reality

Maik Thöner, Arjan Kuijper, *Germany*.

Towards a Structured Selection of Game Engines for Virtual Environments

Martin Westhoven, Thomas Alexander, *Germany*.

Evaluation and Fair Comparison of Human Tracking Methods with PTZ Cameras

Alparslan O. Yildiz, Noriko Takemura, Yoshio Iwai, Kosuke Sato, *Japan*.

Low Cost Hand-tracking Devices to Design Customized Medical Devices

Giorgio Colombo, Giancarlo Facchetti, Caterina Rizzi, Andrea Vitali, *Italy*.

Registration System Errors Perception in Augmented Reality Based on RGB-D Cameras

Daniel M Tokunaga, Cléber G. Corrêa, Fernanda M. Bernardo, João Luiz Bernardes Jr, Edith Ranzini, Fátima de Lourdes Dos Santos Nunes, Romero Tori, *Brazil*.

Digital Archiving of Takigi Noh Based on Reflectance Analysis

Wataru Wakita, Shiro Tanaka, Kohei Furukawa, Kozaburo Hachimura, Hiromi Tanaka, *Japan*.

Spatial Mapping of Physical and Virtual Spaces as an Extension of Natural Mapping: Relevance for Interaction Design and User Experience

Daniel Pietschmann, Peter Ohler, *Germany*.

Cross-Cultural Design

CCD S209

Sustainability Oriented User Experience Design

Chair(s): Yongqi Lou, *P.R. China*.

Room: **BEAUDRY B**

When Human-Centered Design Meets Social Innovation: The Idea of Meaning Making Revisited

Jin Ma, *P.R. China*.

Ask Local: Explore a New Place Like Locals

Cagri Hakan Zaman, Federico Casalegno, Meng Sun, Kulpreet Chilana, *United States*.

Based on Action-Personality Data Mining, Research of Gamification Emission Reduction Mechanism and Intelligent Personalized Action Recommendation Model

Yangbo Xu, Yi Tang, *P.R. China*.

Design for Sustainable Behavior

Xu Sun, Qingfeng Wang, Nan Wang, Charlie Sugianto So, *P.R. China*; Yan Wang, *United Kingdom*.

S210

Research on User Experience Oriented Service Design - II

Chair(s): Binbin Li, Qijun Duan, *P.R. China*.

Room: **BEAUDRY A**

A Brand Construction Strategy of Digital Cultural and Creative Empowerment in Local Cultural Industries

Tsen-Yao Chang, Kuo-Li Huang, *Taiwan*.

Service design towards sustainable lifestyle in the context of mobile internet

Xueliang Li, Miaosen Gong, Dongjuan Xiao, *P.R. China*.

Research on Product Affective Image by the Way of Empathic Design

Meiyu Zhou, Xiaowen Yang, Peilong Liang, Pei Xu, *P.R. China*.

Chinese Cultural Values in User Experience Design of Kids' Home Products

Xiaojun Huang, Linong Dai, *P.R. China*.

SCSM S211

Designing Social Media

Chair(s): To be announced.

Room: **LOS CERRITOS**

User Modeling on Social Media for Art Museums and Galleries

Kingkarn Sookhanaphibarn, Utaiwan Chatuporn, Kodchakorn Na Nakornphanom, *Thailand*.

Designing a Social Mobile Platform for Diabetes Self-Management: a Theory-Driven Perspective

Hoang D. Nguyen, Xinyi Jiang, Danny Chiang Choon Poo, *Singapore*.

Enabling Continuous Emotional Status Display in Mobile Text Chat

Jackson Feijó Filho, Wilson Prata, Thiago Valle, *Brazil*.

Social Media Participation: A Narrative Way to Help Urban Planners

Erick López-Ornelas, Nora Morales Zaragoza, *Mexico*.

Identifying Collaboration Strategies in Scientific Collaboration Networks

Maria Lucia Bento Villela, Simone Xavier, Raquel Oliveira Prates, *Brazil*.

FRIDAY 10:30 - 12:30

AC S212

Augmented Cognition

Implications of Operational Neuroscience and Neuroergonomics on Military Selection, Classification, and Training
Chair(s): Eric Stephen Vorm, *United States*.
Room: **LOS FELIZ**

The Neurobiology of Executive Function under Stress and Optimization of Performance
Ann M. Rasmusson, John M. Irvine, *United States*.

Impact of Acute Stress on Attentional Orienting to Social Cues in Special Operations Personnel
Charles Morgan, Harlan Fichtenholtz, Bartlett Russell, *United States*.

Data Analytics in Training Environments: an Example Application
Will Brown, Kirk Dunkelberger, David Ek, Keith Mathias, *United States*.

Adapting Ethics for Future Technologies
Todd Seech, *United States*.

Constrained Tensor Decomposition via Guidance: Increased Inter and Intra-Group Reliability in fMRI Analyses
Peter B. Walker, Sean Gilpin, Sidney Fooshee, Ian Davidson, *United States*.

DHM S213

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

Medical decision-making and applications
Chair(s): Min Soon Kim, *United States*.
Room: **SANTA ANITA C**

Stepwise Formal Modelling and Reasoning for Insulin Infusion Pump Requirements
Neeraj Kumar Singh, Hao Wang, Mark Lawford, Thomas S.E. Maibaum, Alan Wasssyng, *Canada*.

Usability of Mobile Applications Supporting Training in Diagnostic Decision-Making by Radiologists
Min Soon Kim, Awatef A. Ben Ramadan, Martina A. Clarke, Mia K. Markey, Kraig J. Lage, Michael R. Aro, Kevin L. Ingalls, Vivek Sindhvani, *United States*.

Formalizing The Cardiac Pacemaker Resynchronization Therapy
Neeraj Kumar Singh, Mark Lawford, Thomas S.E. Maibaum, Alan Wasssyng, *Canada*.

Automatic Identification of Below-Knee Residuum Anatomical Zones
Giorgio Colombo, Giancarlo Facchetti, Caterina Rizzi, Andrea Vitali, *Italy*.

Modeling and Simulating Lifting Task of Below-knee Amputees
Yan Fu, Shiqi Li, Qian Chen, Wei Zhou, *P.R. China*.

A Mobile Application for the Stereoacuity Test
Silvia Bonfanti, Angelo Gargantini, Andrea Vitali, *Italy*.

S214

Human Modeling for Quality Care - II
Chair(s): Noriaki Kuwahara, *Japan*.
Room: **PALOS VERDES**

Analysis of the Skills to Acupuncture
Yoshio Ikai, Masakazu Migaki, Noriyuki Kida, Hidehisa Iwamoto, Hiroyuki Hamada, *Japan*.

Influence of Proficiency on Eye Movement of the Surgeon for Laparoscopic Cholecystectomy
Hisanori Shiomi, Masamori Notsu, Tomoko Ota, Yuka Takai, Akihiko Goto, Hiroyuki Hamada, *Japan*.

Exploring How People Collaborate with a Stranger: Analyses of Verbal and Non-verbal Behaviors in Abstract Art Reproduction
Haruka Shoda, Tomoki Yao, Noriko Suzuki, Mamiko Sakata, *Japan*.

Verbal and Nonverbal Skills in Open Communication: Comparing Experienced and Inexperienced Radio Duos
Noriko Suzuki, Yu Oshima, Haruka Shoda, Mamiko Sakata, Noriko Ito, *Japan*.

Effective Design of Tradittonal Japanese tea ceremony in the Group Home for the Elderly with Dementia
Teruko Doi, Noriaki Kuwahara, Kazunari Morimoto, *Japan*.

DUXU S215

Design, User Experience, and Usability

User experience and usability evaluation
Chair(s): James R. Lewis, *United States*.
Room: **SAN PEDRO**

Evaluation of User Experience in Interaction with Computer Games
Tihana Lapaš, Tihomir Orehovački, *Croatia*.

Measuring Negative User Experience
Dominik Magin, Andreas Maier, Steffen Hess, *Germany*.

Are We Testing Utility? Analysis of Usability Problem Types
Kimmo Tarkkanen, Ville Harkke, Pekka Reijonen, *Finland*.

How to Evaluate Use Scenarios and Stories
Ioanna Michailidou, Charlotte Haid, Udo Lindemann, *Germany*.

INUIT: The Interface Usability Instrument
Maximilian Speicher, Andreas Both, Martin Gaedke, *Germany*.

Investigating the correspondence between UMUX-LITE and SUS scores
James R. Lewis, Brian Utesch, Deborah Maher, *United States*.

Building Information Architecture Criteria for Assessing and Evaluating Universities' Web Portals
Hamad Ibrahim Alomran, *Saudi Arabia*.

DUXU S216

Mobile DUXU

Chair(s): Nouf Khashman, *Canada*.

Room: **SAN BERNARDINO**

The Importance of Metaphors for User Interaction with Mobile Devices

Chrysoula Gatsou, *Greece*.

Behavioural Variables Analysis in Mobile Environments

Denise Marczal, Plinio Thomaz Aquino Junior, *Brazil*.

Keyword Input via Digits: Simplified Smartphone Interface for Information Retrieval

Masanobu Higashida, Toru Ishida, *Japan*.

Smartphone Application Usability Evaluation: The Applicability of Traditional Heuristics

Ger Joyce, Mariana Lilley, Trevor Barker, Amanda Jefferies, *United Kingdom*.

A Practice on Wayfinding System Design with Service Design Thinking

Jing Pan, Zhengsheng Yin, *P.R. China*.

Emotions Logging in Automated Usability Tests for Mobile Devices

Jackson Feijó Filho, Wilson Prata, Thiago Valle, *Brazil*.

DAPI S217

Smart materials, objects and furniture

Chair(s): Rachel Zuanon, *Brazil*.

Room: **SANTA MONICA D**

Novel Method for Notification from Interactive Smart Cover

Young Hoon Oh, Da Young Ju, *Korea*.

The Capacitive Chair

Andreas Braun, Sebastian Frank, Reiner Wichert, *Germany*.

Design of Co-evolving Textiles Applied to Smart Products

Rachel Zuanon, Geraldo Coelho Lima Júnior, *Brazil*.

Task Specific Paper Controller that can be Created by Users for a Specific Computer Operation

Daisuke Komoriya, Buntarou Shizuki, Jiro Tanaka, *Japan*.

Smart Kiosk with Gait-based Continuous Authentication

Duong-Tien Phan, Nhan Nguyen-Trong Dam, Minh-Phuc Nguyen, Minh-Triet Tran, Toan-Thinh Truong, *Viet Nam*.

Distributed, Ambient and Pervasive Interactions

HAS S218

Malicious Insider Threat

Chair(s): Ulrike Hugl, *Austria*.

Room: **SAN FERNANDO**

Insider Threats: the Major Challenge to Security Risk Management

Teresa Pereira, Henrique M.D. Santos, *Portugal*.

Identifying Blind Spots in IS Security Risk Management Processes using Qualitative Model Analysis

Christian Sillaber, Ruth Breu, *Austria*.

The Effects of Awareness Programs on Information Security in Banks: The Roles of Protection Motivation and Monitoring

Stefan Bauer, Edward W.N. Bernroider, *Austria*.

KYPO: A Tool for Collaborative Study of Cyberattacks in Safe Cloud Environment

Zdenek Eichler, Radek Ošlejšek, Dalibor Toth, *Czech Republic*.

Re-Designing Permission Requirements to Encourage BYOD Policy Adherence

Lotus Lee, Jeremiah D. Still, *United States*.

Putting a Hat on a Hen? Learnings for Malicious Insider Threat Prevention from the Background of German White-collar Crime Research

Ulrike Hugl, *Austria*.

A Probabilistic Analysis Framework for Malicious Insider Threats

Taolue Chen, Florian Kammüller, *United Kingdom*; Ibrahim Nemli, Christian. W. Probst, *Denmark*.

Human Aspects of Information Security, Privacy and Trust

FRIDAY 10:30 - 12:30

HCI S219

Psychological and physiological issues in HCI

Chair(s): Tatsunori Matsui, *Japan*.

Room: **SANTA BARBARA A**

Interactions in Affective Computing: Sharing a Haptic Experience Increases Calmness and Closeness

Norene Kelly, *United States*.

Design of a Bullying Detection/Alert System for School-Wide Intervention

Sheryl Brahnham, Jenifer Roberts, *United States*; Loris Nanni, *Italy*; Cathy Starr, Sandra Bailey, *United States*.

An Experimental Study on the Effect of Repeated Exposure of Facial Caricature on Memory Representation of a Model's Face

Yoshimasa Tawatsuji, Yuki Iizuka, Tatsunori Matsui, *Japan*.

A Study on the Relationships between Drivers' Emotions and Brain Signals

Songyi Chae, *Korea*.

An Experimental Study on Visual Search Factors of Information Features in a Task Monitoring Interface

Xiaoli Wu, Chengqi Xue, Feng Zhou, *P.R. China*.

Do We Differ in Our Dispositional Tendency to Perceive Virtual Agents as Animate Beings? The Influence of User Factors in the Evaluation of Virtual Agents

Benny Liebold, Daniel Pietschmann, Peter Ohler, *Germany*.

S220

HCI: Theory and practice

Chair(s): Carsten Wittenberg, *Germany*.

Room: **SANTA BARBARA B**

An Activity Theory Approach to Intuitiveness: From Artefact to Process

Sturla Bakke, *Norway*.

Moral Biases and Decision: Impact of Information System on Moral Biases

Karim Elia Fraoua, *France*.

Cross-over Study of Time Cognition And Interface Design

Huizhong Zhang, Guanzhong Liu, Hai Fang, *P.R. China*.

Cause the Trend Industry 4.0 in the Automated Industry to New Requirements on User Interfaces?

Carsten Wittenberg, *Germany*.

Entrepreneurial IS Development: why Techniques Matter and Methods don't

Nikolaus Obwegeser, *Denmark*.

S221

Interacting in complex environments

Chair(s): To be announced.

Room: **SANTA BARBARA C**

Towards Creation of Implicit HCI Model For Prediction and Prevention of Operators' Error

Pavle D Mijovic, Milos Milovanovic, Miroslav Minovic, Ivan Macužic, Vanja Kovic, Ivan Gligorijevic, *Serbia and Montenegro*.

Improving User Performance in a Smart Surveillance Scenario through Different Levels of Automation

Massimiliano Dibitonto, Carlo Maria Medaglia, *Italy*.

Simulation of An Affordance-based Human-machine Cooperative Control Model Using An Agent-based Simulation Approach

YeongGwang Oh, IkChan Ju, Namhun Kim, *Korea*.

An Exploration of Shape in Crowd Computer Interactions

Anthony C. Scavarelli, Ali Arya, *Canada*.

HIMI S222

Information and knowledge in transport

Chair(s): Thomas Porathe, *Norway*.

Room: **SANTA ANITA A**

Development of a New Low Cost Driving Simulation for Assessing Multidimensional Task Loads Caused by Mobile ICT at Drivers' Workplaces. – Objective-Fidelity Beats Equipment-Fidelity

Michael Bretschneider-Hagemes, *Germany*.

Urban driving: Where to present what types of information – Comparison of Head-Down and Head-Up Displays

Martin Götze, Klaus Bengler, *Germany*.

Information Sharing System Based on Situation Comprehensions of Intelligent Vehicles to Improve Drivers' Acceptability for Proactive ADAS

Takuma Ito, Tatsuya Shino, Minoru Kamata, *Japan*.

A Multi-Agent Based System for Route Planning

Eugene S Belyi, Indravadan Patel, Anusha Reddy, Vijay Mago, *United States*.

Parking Autonomous Skids

James T. Hing, Ross Boczar, Kyle Hart, *United States*.

Human Error and e-Navigation: Developing the Nautical Chart as Resilient Decision Support

Thomas Porathe, *Norway*.

UAHCI S223

Human, Computer & Environment
Chair(s): Jerzy Charytonowicz, Anna Jaglarz, *Poland*.

Room: **SAN GABRIEL A**

Model of OHS Management Systems in an Excellent Company
Anna Mazur, *Poland*.

"Biometric Dental Rosette" - Introduction Into New Method of Dental Identification
Michał Rychlik, Agnieszka Przysańska, Dorota Lorkiewicz-Muszyńska, Mariusz Głapiński, *Poland*.

Human-Computer Interactions in Contemporary Office Environment
Elzbieta Dagny Rynska, Ferdynand Gorski, *Poland*.

Ergonomic Implications of Technological Innovations in the Development of Computer Workstations
Marcin Butlewski, Aleksandra Dewicka, Edwin Tytyk, *Poland*.

Risk Analysis in the Process a New Workplace
Hanna Golas, *Poland*.

Human factor in Sustainable Manufacturing
Malgorzata Jasiulewicz-kaczmarek, Anna Saniuk, *Poland*.

Interior Architecture and Humane Design
Elzbieta Trocka-Leszczynska, Joanna Jablonska, *Poland*.

S224

Universal access to mobile interaction
Chair(s): Laura Burzagli, *Italy*.

Room: **SAN GABRIEL B**

Understanding, Evaluating and Analyzing Touch Screen Gestures for Visually Impaired Users in Mobile Environment
Vikas Luthra, Sanjay Ghosh, *India*.

Evaluation of the Android Accessibility API Recognition Rate towards a Better User Experience
Mauro C Pichiliani, Celso M. Hirata, *Brazil*.

Mobile Assistive Technology Mapping and Integration
Luis Felipe Jimenez, Patricia Morreale, *United States*.

Advances on Breathing Based Text Input for Mobile Devices
Jackson Feijó Filho, Wilson Prata, Thiago Valle, *Brazil*.

Speech Recognition Native Module Environment Inherent in Mobiles Devices
Blanca E. Carvajal-Gamez, Erika Hernández-Rubio, Amílcar Meneses Viveros, Francisco J. Hernandez-Castaneda, *Mexico*.

S225

Interaction for deaf users
Chair(s): Areej Al-Wabil, *Saudi Arabia*.

Room: **SAN GABRIEL C**

The Low Use of SignWriting Computational Tools from HCI Perspective
Carlos Eduardo Andrade Iatskiu, Laura Sánchez García, Rafael Dos Passos Canteri, Diego Roberto Antunes, *Brazil*.

Design and Development of an Educational Arabic Sign Language Mobile Application: Collective Impact with Tawasol
Abeer N. Al-Nafjan, Bayan Al-Arifi, Areej Al-Wabil, *Saudi Arabia*.

Interactive Software Technology for Deaf Users: Mapping the HCI Research Landscape that Focuses on Accessibility
Alexandros Yeratziotis, Panayiotis Zaphiris, *Cyprus*.

Games Accessibility for Deaf People: Evaluating Integrated Guidelines
Ana L.K. Waki, Guilherme S. Fujiyoshi, Leonelo D.A. Almeida, *Brazil*.

Comparison Research between ICT-based Design and Traditional Design for Hearing Impaired Children - A Case Study on Speech Training Tool
Ying Yang, Junnan Yu, Wenyi Cai, Ting Han, *P.R. China*.

VAMR S226

Design and evaluation of VAMR
Chair(s): Gordon Mair, *United Kingdom*.

Room: **SANTA MONICA A**

Subjective Usability Evaluation Criteria of Augmented Reality Applications
Valéria Farinazzo Martins, Tereza Gonçalves Kirner, Claudio Kirner, *Brazil*.

Evaluation of Autonomous Approaches using Virtual Environments
Katharina Stahl, Jörg Stöcklein, Sijia Li, *Germany*.

Applying Tangible Augmented Reality in Usability Evaluation
Xiaotian Zhang, Young Mi Choi, *United States*.

The Virtual Meditative Walk: an Immersive Virtual Environment for Pain Self-Modulation through Mindfulness-Based Stress Reduction Meditation
Xin Tong, Diane Gromala, Amber Choo, Ashfaq Mahmood Amin, Chris Shaw, *Canada*.

Animation Guidelines for Believable Embodied Conversational Agent Gestures
Ivan Gris, Diego Rivera, David Novick, *United States*.

Fact and Fiction Merge in Telepresence and Teleoperation - A Present and Future Perspective
Gordon Mair, *United Kingdom*.

Multimodal Digital Taste Experience with D'Licious Vessel
Liangkun Yan, Barry Chew, Jie Sun, Li An Chiu, Nimesha Ranasinghe, Ellen Yi-Luen Do, *Singapore*.

CCD S227

Cross-Cultural Design

Case studies in cross-cultural design
Chair(s): Zhe Chen, Lei Liu, P.R. China.

Room: **BEAUDRY A**

Cultural Difference on Team Performance Between Chinese and Americans in Multiplayer Online Battle Arena Games
Huiwen Wang, Bang Xia, Zhe Chen, P.R. China.

On the Qualitative Research Approach and Application of the "VTIO" model based on Cultural Differences - A Case Study of Changan Ford Mazda Automobile Co., Ltd
Lei Liu, Lin Ma, P.R. China.

Diagnosis on Corporate Culture and Construction — A Case Study of Limin Chemical Co., Ltd.
Lin Ma, Xueli Wang, Xiaopeng He, P.R. China.

Brazilian Cultural Differences and Their Effects on the Web Interfaces User Experience
Tales Rebequi Costa Borges De Souza, Marcelo Morandini, João Luiz Bernardes Jr, Brazil.

Design Process as Communication Agency for Value Co-Creation in Open Social innovation Project: A Case Study of QuYang Community in Shanghai
Dongjin Song, P.R. China; Susu Nousala, Finland; Yongqi Lou, P.R. China.

AC S228

Augmented Cognition

Neuromethods, Training, and Education
Chair(s): Roy Stripling, United States.

Room: **SANTA ANITA B**

Making Neuroscience Accessible to Non-Scientists
Chris Forsythe, United States.

EEG Coherence within Tutoring Dyads: A Novel Approach for Pedagogical Efficiency
Bradly T. Stone, Kelly Correa, Nandan Thor, Robin Johnson, United States.

Measuring Concentration while Programming with Low-Cost BCI Devices: Differences between Debugging and Creativity Tasks
Victor M. Gonzalez, Mexico; Romain Robbes, Chile; Gabriela Gongora, Salvador Medina, Mexico.

Team Resilience: A Neurodynamic Perspective
Ronald Stevens, Trysha Galloway, Jerry Lamb, Ronald Steed, Cynthia Lamb, United States.

DHM S229

Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management

Safety, accident prevention and emergency
Chair(s): Ronald Laurids Boring, United States.

Room: **SANTA ANITA C**

Development of a 3D Finite Element Model of the Chinese 50th Male for the Analysis of Automotive Impact
Huimin Hu, Li Ding, Xianxue Li, Chaoyi Zhao, Yan Yin, P.R. China.

Biomechanical Analysis of Human Thorax and Abdomen during Automotive Impact
Huimin Hu, Li Ding, Xianxue Li, Chaoyi Zhao, Yan Yin, P.R. China.

Modeling of a Virtual Open Platform for Human Cranium Simulation
Pedro F M Perestrelo, Mauricio Torres, Pedro Noritomi, Jorge V. L Vicente Lopes da Silva, Brazil.

Anthropometric Casualty Estimation Methodologies
Daniel Rice, Medhat Korna, United States.

Human Performance Modeling for Dynamic Human Reliability Analysis
Ronald Laurids Boring, Jeffrey Clark Joe, Diego Mandelli, United States.

Hybrid BFO-PSO and Kernel FCM for the Recognition of Pilot Performance influenced by Simulator Movement using Diffusion Maps
Jia Bo, Yinbo Zhang, Lu Ding, Qi Wu, Bi-Ting Yu, Shan Fu, P.R. China.

S230

Human Modeling for Quality Care - III
Chair(s): Noriaki Kuwahara, Japan.

Room: **PALOS VERDES**

Study of Caregivers' Skills for Monitoring Senior Residents
Mikako Ito, Yuka Takai, Akihiko Goto, Noriaki Kuwahara, Japan.

Analysis of Eye Movement of Caregiver Concerning on Transfer Operation
Akihiko Goto, Japan; Mengyuan Liao, P.R. China; Yuka Takai, Takashi Yoshikawa, Hiroyuki Hamada, Japan.

Effect of Care Gesture on Transfer Care Behavior in Elderly Nursing Home in Japan
Mengyuan Liao, P.R. China; Takashi Yoshikawa, Akihiko Goto, Tomoko Ota, Hiroyuki Hamada, Japan.

Study of Caregiver's Waist Movement Comparison Between Expert and Non-Expert During Transfer Care
Mengyuan Liao, P.R. China; Takashi Yoshikawa, Akihiko Goto, Yoshihiro Mizutani, Tomoko Ota, Hiroyuki Hamada, Japan.

An Investigation of Caregiver's Fatigue During Nursing Work in China
Mengyuan Liao, Yuqiu Yang, P.R. China; Yuka Takai, Takashi Yoshikawa, Akihiko Goto, Japan; Ting Yang, P.R. China; Tomoko Ota, Hiroyuki Hamada, Japan.

DUXU S231

Beauty Technology: Wearables on Skin

Chair(s): Katia Canepa Vega, *Brazil*.

Room: **SAN PEDRO**

TattooAR: Augmented Reality Interactive Tattoos

Gabriela Schirmer Mauricio, João De Sá Bonelli, Maria Das Graças Chagas, *Brazil*.

A Novel User-Specific Wearable Controller for Surgical Robots

Carmen C.Y. Poon, Esther Y.Y. Leung, Ka Chun Lau, Billy HK Leung, Yali Zheng, Philip W.Y. Chiu, Yeung Yam, *Hong Kong*.

Flexible and Wearable Sensors

Kuniharu Takei, Shingo Harada, Wataru Honda, Yuki Yamamoto, Kenichiro Kanao, Takayuki Arie, Seiji Akita, *Japan*.

Hairware: Designing Conductive Hair Extensions for seamless interfaces

Katia Canepa Vega, Ricardo Aucélio, Hugo Fuks, *Brazil*.

Tattoo Antenna Temporary Transfers Operating On-Skin (TATTOOS)

James Tribe, Dumtoochukwu Oyeka, John Batchelor, Navjot Kaur, Diana Segura-Velandia, Andrew West, Rob Kay, *United Kingdom*; Katia Canepa Vega, *Brazil*; Will Whittow, *United Kingdom*.

S232

User experience design theory and methods

Chair(s): Blaise Liffick, *United States*.

Room: **SAN BERNARDINO**

Learning from Experience Oriented Disciplines for User Experience Design – A Research Agenda

Simon Kremer, Udo Lindemann, *Germany*.

Investigating Synergies Between Interaction Design Methods

Stefano Filippi, Daniela Barattin, *Italy*; Paula Alexandra Silva, *Ireland*.

Twenty Years On: A Second Look at 10 Important Social Impact Characteristics of Computer Technology

Blaise Liffick, *United States*.

HCI and the Community of Non-Users

Michael Heidt, Kalja Kanellopoulos, Linda Pfeiffer, Paul Rosenthal, *Germany*.

Human-Robot Interaction Ethics in Sci-Fi Movies: Ethics are not 'there', we are the Ethics!

Myriam El Mesbahi, *Morocco*.

DAPI S233

User experience in intelligent environments

Chair(s): Ioannis Drossis, *Greece*.

Room: **SANTA MONICA D**

Using the GQM Method to evaluate Calmness in Ubiquitous Applications

Rainara Maia Carvalho, Rossana M.C. Andrade, Káthia M. Oliveira, *Brazil*.

Subjective User Experience and Performance with Active Tangibles on a Tabletop Interface

Jan B.F. Van Erp, Alexander Toet, Koos Meijer, Joris Janssen, Arnoud De Jong, *Netherlands*.

Interpreting Food-Venue Visits: Spatial and Social Contexts of Mobile Consumption in Urban Spaces

Shin'ichi Konomi, Kenta Shoji, Tomoyo Sasao, *Japan*.

Developing Intuitive Gestures for Spatial Interaction with Large Public Displays

Yubo Kou, *United States*; Yong Ming Kow, *Hong Kong*; Kelvin Cheng, *Singapore*.

Employing Virtual Humans for Interaction, Assistance and Information Provision in Ambient Intelligence Environments

Chryssi Birliraki, Dimitris Grammenos, Constantine Stephanidis, *Greece*.

Immersing Users in Landscapes Using Large Scale Displays in Public Spaces

Iannis Drossis, Antonios Ntelidakis, Dimitris Grammenos, Xenophon Zabulis, Constantine Stephanidis, *Greece*.

HAS S234

Usable Authentication

Chair(s): Theo Tryfonas, *United Kingdom*.

Room: **SAN FERNANDO**

Chimera CAPTCHA: A Proposal of CAPTCHA using Strangeness in Merged Objects

Masahiro Fujita, Yuki Ikeya, Junya Kani, Masakatsu Nishigaki, *Japan*.

Investigating the Use of Gesture-based Passwords by the Seniors

Lakshmidivi Sreeramareddy, Pewu Mulbah, Jinjuan Heidi Feng, *United States*.

"Too Taxing on the Mind!" Authentication Grids are not for Everyone

Kat Krol, Constantinos Papanicolaou, Alexei Vernitski, Angela Sasse, *United Kingdom*.

Principles of Persuasion in Social Engineering and their Use in Phishing

Ana Ferreira, *Luxembourg*; Lynne Coventry, *United Kingdom*; Gabriele Lenzini, *Luxembourg*.

Single Trial Authentication with Mental Password Writing

Sarah N Abdulkader, Ayman Atia, Mostafa-Sami Mostafa, *Egypt*.

Leap Motion Controller for Authentication via Hand Geometry and Gestures

Alexander Chan, Tzipora Halevi, Nasir Memon, *United States*.

HCI in Business

HCIB S235

Industrial Applications of HCI: HCI in the "Real World"

Chair(s): Richard H. Hall, *United States*.

Room: **LOS CERRITOS**

Bridging the Gap Between Business Partners and End Users

Travis Duncan, *United States*.

Ambient and Aesthetic Intelligence for High-End Hospitality

Daniela A. Plewe, Rui An Ong, *Singapore*; Carsten Röcker, *Germany*.

UX and Usability on Smart TV: A case study on a T-commerce application

Andrea Ingrosso, Valentina Volpi, Antonio Opromolla, Eliseo Sciarretta, Carlo Maria Medaglia, *Italy*.

Gamification and Persuasion of HP IT Service Management to Improve Performance and Engagement

Yue Yuan, Ke Ke Qi, *P.R. China*; Aaron Marcus, *United States*.

Learning and Collaboration Technologies

LCT S236

New approaches to language learning

Chair(s): Renlong Ai, *Germany*.

Room: **LOS FELIZ**

Automatic Pronunciation Error Detection and Feedback Generation for CALL Applications

Renlong Ai, *Germany*.

Voice-based Computer Mediated Communication for Individual Practice to Increase Speaking Proficiency: Construction and Pilot Study

Yuichi Ono, Akio Onishi, Manabu Ishihara, Mitsuo Yamashiro, *Japan*.

Prediction of Learner Native Language by Writing Error Pattern

Brendan Flanagan, Chengjiu Yin, Takahiko Suzuki, Sachio Hirokawa, *Japan*.

Design and Implementation of Novel Word Learning System "Überall"

Reina Shimizu, Katsuhiko Ogawa, *Japan*.

Dual-Coding Strategy for the Chinese Characters Learners: Chinese PCS Editor

Chi Nung Chu, *Taiwan*.

Human Aspects of IT for the Aged Population

ITAP S237

Elderly in E-Commerce and Virtual Community

Chair(s): Jiunn-Woei Lian, *Taiwan*.

Room: **BEAUDRY B**

Examining the Validity of the Banner Recommendation System

Rong-Fuh Day, Chien-Ying Chou, *Taiwan*.

Exploring the Impacts of Age and Usage Experience of e-Service on User Perceived Web Quality

Chien Hsiang Liao, *Taiwan*.

Perceived Barriers for Older Adults' Shopping Channel Selection toward Online Shopping: Comparisons Between Different Business Models

Jiunn-Woei Lian, *Taiwan*.

Taiwanese Middle-Aged and Elderly Patients' Acceptance and Resistance toward the Health Cloud

Wen-Tsung Ku, Pi-Jung Hsieh, *Taiwan*.

The Study of Using Facebook in Taiwan's Elderly Population — a Case Study in Learners of the Senior Citizens Academy in a City of Taiwan

Ming-Wei Wang, Yu-Chin Lin, *Taiwan*.

Review of Empirical Research in Recent Decade about the use of IT for Older Adults

Yi-Chang Li, *Taiwan*.

FRIDAY 13:30 - 15:30

HCI	S238	S239	S240	S241	continues...
	<p>Gesture and motion based interaction Chair(s): Shinji Sako, <i>Japan</i>.</p> <p>Room: SANTA BARBARA A</p>	<p>Emotions in HCI Chair(s): Oliver Korn, <i>Germany</i>.</p> <p>Room: SANTA BARBARA B</p>	<p>Web Usability and Quality Chair(s): Farid Shirazi, <i>Canada</i>.</p> <p>Room: SANTA BARBARA C</p>	<p>HCI for health and well-being Chair(s): Min Soon Kim, <i>United States</i>.</p> <p>Room: SANTA ANITA B</p>	
	<p>Design and Evaluation of Freehand Gesture Interaction for Light Field Display Vamsi Kiran Adhikarla, <i>Hungary</i>; Grega Jakus, Jaka Sodnik, <i>Slovenia</i>.</p> <p>Swift Gestures: Seamless Bend Gestures using Graphics Framework Capabilities Samudrala Nagaraju, <i>India</i>.</p> <p>AirFlip: A Double Crossing In-Air Gesture using Boundary Surfaces of Hover Zone for Mobile Devices Hiroyuki Hakoda, Takuro Kuribara, Keigo Shima, Buntarou Shizuki, Jiro Tanaka, <i>Japan</i>.</p> <p>Phases of Technical Gesture Recognition Tobias F. Nowack, Nuha Suzaly, Stefan Lutherdt, Kirsten Schürger, Stefan Jehring, Hartmut Witte, Peter Kurtz, <i>Germany</i>.</p> <p>Violin Fingering Estimation According to the Performer's Skill Level based on Conditional Random Field Shinji Sako, Wakana Nagata, Tadashi Kitamura, <i>Japan</i>.</p> <p>Interactive Sonification Markup Language (ISML) for Efficient Motion-Sound Mappings James Walker, Michael T. Smith, Myoungsoon Jeon, <i>United States</i>.</p>	<p>Understanding Visual Appeal and Quality Perceptions of Mobile Apps: An Emotional Perspective Upasna Bhandari, <i>Singapore</i>; Tillman Neben, <i>Germany</i>; Klarissa Chang, <i>Singapore</i>.</p> <p>The Effect of Gamification on Emotions - The Potential of Facial Recognition in Work Environments Oliver Korn, Sandra Boffo, Albrecht Schmidt, <i>Germany</i>.</p> <p>Analytical Steps for the Calibration of an Emotional Framework - Pre-Test and Evaluation Procedures Nicholas H. Müller, Martina Truschzinski, <i>Germany</i>.</p> <p>Emotional Engagement for Human-Computer Interaction in Exhibition Design Mengting Mickey Zhang, <i>Hong Kong</i>; Ceas de Bont, <i>Netherlands</i>; Wenhua Li, <i>Hong Kong</i>.</p> <p>Automatic Interpretation of Negotiators' Affect and Involvement based on Their Non-verbal Behavior Zhaleh Semnani-Azad, Elnaz Nouri, <i>United States</i>.</p> <p>HCI and Natural Progression of Context-Related Questions Aggeliki Vlachostergiou, George Caridakis, Amaryllis Raouzaïou, Stefanos Kollias, <i>Greece</i>.</p>	<p>Usability and Aesthetics: the Case of Architectural Websites Evanthia Faliagka, Eleni Lalou, Maria Rigou, Spiros Sirmakessis, <i>Greece</i>.</p> <p>How to Evaluate Investments in Website Quality Within eGovernment? Exploring the Webmaster's Perception of Benefits Hanne Sørum, Asle Fagerstrøm, <i>Norway</i>.</p> <p>Using Readers' and Organizations' Goals to Guide Assessment of Success in Information Websites Robert B. Watson, Jan Spyridakis, <i>United States</i>.</p> <p>The Effect of Banner Location on Banner Recognition in a Turkish Government Website: An Eye Tracking Study Hacer Güner, Yavuz Inal, <i>Turkey</i>.</p> <p>Cloud Computing: A Multi-tenant Case Study Anindya Hossain, Farid Shirazi, <i>Canada</i>.</p>	<p>Is Gamification Effective in Motivating Exercise? Dion Hoe-Lian Goh, Khasfariyati Razikin, <i>Singapore</i>.</p> <p>On Time: Efficient and Personalized Hospital Service So Yon Jeong, Da Young Ju, <i>Korea</i>.</p> <p>What Learnability Issues Do Primary Care Physicians Experience when using CPOE? Martina A. Clarke, Jeffery Belden, Min Soon Kim, <i>United States</i>.</p> <p>Interactive Clinical Pedigree Visualization Using an Open Source Pedigree Drawing Engine João Miguel Santos, Beatriz Sousa Santos, Leonor Teixeira, <i>Portugal</i>.</p> <p>Interactive Motor Learning with the Autonomous Training Assistant: A Case Study Ramin Tadayon, Troy McDaniel, Morris Goldberg, Pamela M Robles- Franco, Jonathan Zia, Miles Laff, Mengjiao Geng, Sethuraman Panchanathan, <i>United States</i>.</p> <p>A Smartphone Application to Promote Affective Interaction and Mental Health Maurizio Caon, Leonardo Angelini, Stefano Carrino, Omar Abou Khaled, Elena Mugellini, <i>Switzerland</i>.</p>	



HCI S242

Communication, collaboration and social aspects
Chair(s): To be announced.

Room: **SANTA ANITA C**

Historical Registry of Our Families through Textiles
Cathy Starr, Sandra Bailey, Sheryl Brahnham, Jenifer Roberts, *United States.*

An Interaction Design Method to Support the Expression of User Intentions on Collaborative Systems
Cristiane Josely Jensen, *Brazil*;
Julio Cesar Dos Reis, *Luxembourg*;
Rodrigo Bonacin, *Brazil.*

Trust-based Individualization for Persuasive Presentation Builder
Amirsam Khataei, Ali Arya, *Canada.*

Suturing Space: Tabletop Portals for Collaboration
Evan Montpellier, *Canada*;
Garrett L. Johnson, *United States*; Omar Al Faleh, *Canada*;
Joshua Gigantino, Assegid Kidane, Nikolaos Chandolias, Connor WJ Rawls, Todd Ingalls, Xin Wei Sha, *United States.*

E-mail Delivery Mediation System Based on User Interruptibility
Yasumasa Kobayashi, Takahiro Tanaka, Kazuaki Aoki, Kinya Fujita, *Japan.*

Heuristic to Support the Sociability Evaluation in Virtual Communities of Practices
Larissa Albano Lopes, Daniela De Freitas Guilhermino, Thiago Adriano Coleti, Ederson Marcos Sgarbi, Thiago Fernandes Oliveira, *Brazil.*

HIMI S243

User Profiling and Personalisation
Chair(s): Steven Verstockt, *Belgium.*

Room: **SANTA ANITA A**

Modeling User's Sentiment in User Segmentations: An Argumentation Approach for User Centered Design
Maria Paula Gonzalez, Carlos I. Chesñevar, *Argentina*;
Ramon F. Brena, *Mexico.*

Map-based linking of geographic user and content profiles for hyperlocal content recommendation
Steven Verstockt, Viktor Slavkovikj, Kevin Baker, *Belgium.*

What Should I Read Next? A Personalized Visual Publication Recommender System
Simon Bruns, André Calero Valdez, Christoph Greven, Martina Ziefle, Ulrik Schroeder, *Germany.*

An Approach to Spatial Visualising Method for Information Structure to Enhance Remember to Look
Jae Gil Lee, DongHee Shin, *Korea.*

A New Information Architecture: a Synthesis of Structure, Flow, and Dialectic
Rico A.R. Picone, Bryan Powell, *United States.*

UAHCI S244

Novel technologies for speech, language, attention and child development
Chair(s): Margherita Antona, *Greece.*

Room: **SAN GABRIEL A**

SPELTRA: A Robotic Assistant for Speech-and-Language Therapy
Vladimir Robles-Bykbaev, *Ecuador*;
Martin Lopez-Nores, *Spain*;
Juan Ochoa-Zambrano, *Ecuador*;
Jorge Garcia-Duque, José Pazos-Arias, *Spain.*

Digital Play Therapy for Children With Developmental Disorders
Yukako Watanabe, Yoshiko Okada, Hirokata Osawa, Midori Sugaya, *Japan.*

Augmenting Speech-Language Rehabilitation with Brain Computer Interfaces: An Exploratory Study Using Non-Invasive Electroencephalographic Monitoring
Abeer N. Al-Nafjan, Areej Al-Wabil, Yousef Al-Ohali, *Saudi Arabia.*

Usability Heuristics for the Design of Interactive Attention Assessment and Rehabilitation Technologies
Layla Al-Salhi, Weaam Alrashed, Areej Al-Wabil, *Saudi Arabia.*

Employing Ambient Intelligence Technologies to Adapt Games to Children's Playing Maturity
Emmanouil Zidianakis, Ioanna Zidianaki, Danae Ioannidi, Nikolaos Partarakis, Margherita Antona, George Paparoulis, Constantine Stephanidis, *Greece.*

S245

Novel interaction techniques for motor disables users
Chair(s): Ian Scott MacKenzie, *Canada.*

Room: **SAN GABRIEL B**

Collection and Classification of Gestures from People with Severe Motor Dysfunction for Developing Modular Gesture Interface
Ikushi Yoda, Kazuyuki Itoh, Tsuyoshi Nakayama, *Japan.*

Virtual Fingerprint: Image-Based Authentication Increases Privacy for Users of Mouse-Replacement Interfaces
Viktoria Grindle, Syed Kamran Haider, John J. Magee, Marten Van Dijk, *United States.*

Camera Mouse + ClickerAID: Dwell vs. Single-Muscle Click Actuation in Mouse-Replacement Interfaces
John J. Magee, *United States*;
Torsten Felzer, *Germany*;
Ian Scott MacKenzie, *Canada.*

Brain Neural Computer Interface for Everyday Home Usage
Christoph Hintermüller, *Austria*;
Eloisa Vargiu, *Spain*;
Sebastian Halder, *Germany*;
Jean Daly, *United Kingdom*;
Felip Miralles, *Spain*;
Hannah Lowish, *United Kingdom*;
Nick Anderson, *United States*;
Susanne Martin, *United Kingdom*;
Günter Edlinger, *Austria.*

The Use of Multisensory User Interfaces for Games Centered in People with Cerebral Palsy
Eliza Oliveira, Glauco Sousa, Icaro Magalhaes, Tatiana A. Tavares, *Brazil.*

UAHCI S246

Non visual interaction and navigation

Chair(s): Hotaka Takizawa, *Japan*.

Room: **SAN GABRIEL C**

Disorientation Factors that Affect the Situation Awareness of the Visually Impaired Individuals in Unfamiliar Indoor Environments

Abdulrhman Alkhanifer, Stephanie Ludi, *United States*.

A Spot Navigation System for the Visually Impaired by Use of SIFT-based Image Matching

Hotaka Takizawa, Kazunori Orita, Mayumi Aoyagi, Nobuo Ezaki, Shinji Mizuno, *Japan*.

Towards Vibrotactile Direction and Distance Information for Virtual Reality and Workstations for Blind People

Simon Schätzle, Bernhard Weber, *Germany*.

A JBrick: Accessible Robotics Programming for Visually Impaired Users

Stephanie Ludi, Scott Jordan, *United States*.

A Grounded Theory Approach for Designing Communication and Collaboration System for Visually Impaired Chess Players

Sujit Devkar, Sylvan Lobo, Pankaj Doke, *India*.

SCSM S247

Social Computing and Social Media

Individual and Group Behaviour in Social Media

Chair(s): Ardion D. Beldad, *Netherlands*.

Room: **LOS FELIZ**

It's Not About the Risks, I'm just Used to Doing it: Disclosure of Personal Information on Facebook Among Adolescent Dutch Users

Ardion D. Beldad, Ruud Koehorst, *Netherlands*.

A Computational Study of How and Why reddit.com was an Effective Platform in the Campaign Against SOPA

Richard A. Mills, Adam Fish, *United Kingdom*.

An Analytic Study on Private SNS for Bonding Social Networking

Hyeonjung Ahn, Sangwon Lee, *Korea*.

Investigating Usability and User Experience from the user postings in Social Systems

Marília S Mendes, Elizabeth Furtado, Vasco Furtado, Miguel F. De Castro, *Brazil*.

Inter-Social-Networking: Accounting for Multiple Identities

Dominic Price, Derek McAuley, Richard Mortier, Chris Greenhalgh, Michael Brown, Spyros Angelopoulos, *United Kingdom*.

DHM S248

Digital Human Modeling and applications in Health, Safety, Ergonomics and Risk Management

Advanced Applications of Intelligent Systems

Chair(s): Renran Tian, *United States*.

Room: **PALOS VERDES**

Single-Variable Scenario Analysis of Vehicle-Pedestrian Potential Crash based on Video Analysis Results of Large-Scale Naturalistic Driving Data

Renran Tian, Lingxi Li, Kai Yang, Feng Jiang, Yaobin Chen, Rini Sherony, *United States*.

Driving-Behavior Monitoring using an Unmanned Aircraft System (UAS)

Calvin Zheng, Andreina Breton, Wajeeh Iqbal, Ibaad Sadiq, Elsayed Elsayed, Kang Li, *United States*.

Real-time Static Gesture Recognition for Upper Extremity Rehabilitation Using the Leap

Shawn N Gieser, Angela Boisselle, Fillia Makedon, *United States*.

Moment Analysis of Virtual Human Joint Based on JACK

Qianxiang Zhou, Qingsong Yin, Zhongqi Liu, Fang Xie, Shihua Zhou, *P.R. China*.

S249

Applications of anthropometry

Chair(s): Junmin Du, *P.R. China*.

Room: **SAN PEDRO**

The Experimental Research of the Thumb's Comfortable Control Area

Huimin Hu, Junmin Du, Chaoyi Zhao, Fan Yang, Linghua Ran, *P.R. China*.

Experimental Study on Grip Ergonomics of Manual Handling

Aiping Yang, Guang Cheng, Wen-Yu Fu, Huimin Hu, Xin Zhang, *P.R. China*; Chau-Kuang Chen, *United States*.

Correlation Analysis on the Main and Basic Body Dimension for Chinese Adults

Huimin Hu, Chaoyi Zhao, Xin Zhang, Linghua Ran, Tai-jie Liu, *P.R. China*.

Study on the Body Shape of Middle-aged and Old Women for Garment Design

Xiaoping Hu, Yan Zhao, *P.R. China*.

Visual Comparison of 3D Medical Image Segmentation Algorithms Based on Statistical Shape Models

Alexander Geurts, Georgios Sakas, Arjan Kuijper, Meike Becker, Tatiana Von Landesberger, *Germany*.

Design, User Experience, and Usability

DUXU S250

Users' involvement in DUXU
Chair(s): Heloisa Candelo, *Brazil*.

Room: **BEAUDRY A**

Approaching Users and Context of Use in the Design and Development of Mobile Systems
Eyal Eshet, *Finland*; Harry Bouwman, *Netherlands*.

Scaling Preferences of Different Stakeholders – Using the Example of Prioritizing Quality Requirements on User Interface Texts
Yiqi Li, *P.R. China*; Theo Held, Patrick Fischer, *Germany*.

The Use of Generative Techniques in Co-design of mHealth Technology and Healthcare Services for COPD Patients
Anita Das, Silje Bøthun, Jarl Reitan, Yngve Dahl, *Norway*.

Exploring and Experimenting Cooperative Design
Salomao David Cumbula, Lorenzo Cantoni, *Switzerland*.

Design Process of a Social Network System for Storage and Share Files in the Workplace
Heloisa Candelo, Silvia Bianchi, Leandro Cassa, *Brazil*.

A User Study of Netflix Streaming
France L Jackson, Rahul Amin, Yunhui Fu, Juan E. Gilbert, Jim Martin, *United States*.

Distributed, Ambient and Pervasive Interactions

DAPI S251

Developing intelligent environments
Chair(s): Michael Cohen, *Japan*.

Room: **LOS CERRITOS**

A Gesture Recognition Method for Proximity-Sensing Surfaces in Smart Environments
Biyong Fu, Tobias Große-Puppendorf, Arjan Kuijper, *Germany*.

Development of a User-Oriented IoT Middleware Architecture Based on Users' Context Data
Tae Hyun Ha, Narae Kim, Sangwon Lee, *Korea*.

Learning Instead of Markers: Flexible Recognition of Mobile Devices on Interactive Surfaces
Philipp Mock, Jörg Edelmann, Wolfgang Rosenstiel, *Germany*.

GlassNage: Layout Recognition for Dynamic Content Retrieval in Multi-Section Digital Signage
Adiyan Mujibiya, *Japan*.

Measuring the Arrangement of Multiple Information Devices by Observing their User's Face
Saori Kikutani, Koh Kakusho, Takeshi Okadome, Masaaki Iiyama, Satoshi Nishiguchi, *Japan*.

Enabling Programmability of Smart Learning Environments by Teachers
Asterios Leonidis, Margherita Antona, Constantine Stephanidis, *Greece*.

Human Aspects of Information Security, Privacy and Trust

HAS S252

Ethics, Privacy and Security in Social Media
Chair(s): Lynne Coventry, *United Kingdom*.

Room: **SAN FERNANDO**

Signs of Time: Designing Social Networking Site Profile Interfaces with Temporal Contextual Integrity
Alexander Novotny, *Austria*.

Hey, I Have a Problem in the System. Who can Help Me? An Investigation of Facebook Users Interaction When Facing Privacy Problems
Marília S Mendes, Elizabeth Furtado, Guido Militão, Miguel F. De Castro, *Brazil*.

An Investigation of the Factors that Predict an Internet User's Perception of Anonymity on the Web
Shruti Devaraj, Myrte C. Alfred, Kapil Chalil Madathil, Anand K. Gramopadhye, *United States*.

Legal Issues and User Experience in Ubiquitous Systems from a Privacy Perspective
Patricia C. De Souza, Cristiano Maciel, *Brazil*.

Reminding Users of their Privacy at the Point of Interaction: the Effect of Privacy Salience on Disclosure Behaviour
0000 *United Kingdom*.

HCI in Business

HCIB S253

HCI Research: Synergies Between Industry and Academia
Chair(s): Bart Piet Knijnenburg, Hadar Ziv, *United States*.

Room: **SAN BERNARDINO**

Teleworkers and Their Use of an Enterprise Social Networking Platform
Daniel Weiss, Laurie Damianos, Stan Drozdetski, *United States*.

HCI in Business: A Collaboration with Academia in IoT Privacy
Richard Chow, Serge Egelman, Raghudeep Kannavara, Hosub Lee, Suyash Misra, Edward Wang, *United States*.

The Smart Steering Wheel Cover Design: A Case Study of Industrial-Academic Collaboration in Human-Computer Interaction
Eleonora Ibragimova, Arnold Vermeeren, Peter Vink, Nick Mueller, Leanda Verboom, *Netherlands*.

FRIDAY 16:00 - 18:00

ITAP S254

Interaction and control in Ambient Assisted Living Environment

Chair(s): M. Anwar Hossain, Shady Refat Saadeldin Aly, *Saudi Arabia*.

Room: **BEAUDRY B**

Spatial Modeling Factors in Sensor-Based Ambient Assisted Living Technologies Designed for Ageing Populations

Dua'a Al-Hajjar, Reem Al Ehaidib, Sarah Al Muhanna, May Al Sohibani, Areej Al-Wabil, *Saudi Arabia*.

A Meta User Interface for Understandable and Predictable Interaction in AAL

Aida Mostafazadeh, Ali Asghar Nazari Shirehjini, Sara Daraei, *Iran*.

Modeling the Interaction and Control of Smart Universal Interface for Persons with Disabilities

Shady Refat Saadeldin Aly, Ghassan Kbar, Mohammed Abdullah, Ibraheem Al-Sharawy, *Saudi Arabia*.

HAVAS: The Haptic Audio Visual Sleep Alarm System

Ali Danesh, Fedwa Laamarti, Abdulmotaleb El Saddik, *Canada*.

Talking Faces in Lab and Field Trials: A View on Evaluation Settings and User Involvement Results of Avatar Based User Interaction Techniques in Three Ambient Assisted Living Projects

Miroslav Sili, Jan Bobeth, Emanuel Sandner, Sten Hanke, Stephanie Schwarz, Christopher Mayer, *Austria*.

An Adaptable AR User Interface to Face the Challenge of Ageing Workers in Manufacturing

Maura Mengoni, Matteo Iualè, Margherita Peruzzini, Michele Germani, *Italy*.

Research on Interaction Design of Intelligent Mobile Phone for the Elderly Based on the User Experience

Minggang Yang, He Huang, *P.R. China*.

001. **Input Interface Using Eye-Gaze and Blink Information**
Kiyohiko Abe, Hironobu Sato, Shogo Matsuno, Shoichi Ohi, Minoru Ohyama, *Japan*.
002. **Factors influencing adoption of wearable technology**
Apurva Adapa, Fiona Fui-Hoon Nah, *United States*.
003. **Dynamic Adaptation of Personalised Recommendations Based on Tourists' Affective State**
Petr Aksenov, *Netherlands*; Andres Navarro, David Oyarzun, *Spain*; Theo Arentze, Astrid Kemperman, *Netherlands*.
004. **Methodological Considerations for Usability Inspections of Web-based Bioinformatics Tools**
Naelah Al-Ageel, Areej Al-Wabil, Ghada Badr, *Saudi Arabia*.
005. **Requirements Engineering for Interactive Multimedia Art Installations**
Ghadah Al-Ofisan, Areej Al-Wabil, *Saudi Arabia*.
006. **Usability of Mobile Applications in Saudi Higher Education: An Exploratory Study**
Nada Al-Wabil, *Saudi Arabia*.
007. **On-the-fly Notes: Instructor to Student Transfer of In-Class Produced Notes**
Nancy Alajarmeh, *Jordan*.
008. **Information Assurance Practices in Saudi Arabian Organizations**
Abdulaziz Alarifi, *Saudi Arabia*.
009. **Facebook as a Learning Tool in Formal Learning Process**
Alaeddin M.H. Alawawdeh, Stewart Kowalski, *Norway*.
010. **Affective Neurogaming: An Exploratory Study of Brain Computer Interaction in a Popular Action Role-Playing Game**
Nora Aldahash, Areej Al-Wabil, Muhammad Hussain, *Saudi Arabia*.
011. **The Use of Facebook as an Assisting Tool in Teaching Computer Science Courses**
Anwar Alhenshiri, Hoda Badesh, *Libya*.
012. **An Evaluation of AccessBraille: A Tablet-based Braille Keyboard for Individuals with Visual Impairments**
Hanan Alhussaini, Stephanie Ludi, Jim Leone, *United States*.
013. **An Assisted Living Home for Alzheimer's Patient in Saudi Arabia, A Prototype**
Sulaf Almagooshi, Mona Hakami, Maha AlSayyari, Wafa Alrajhi, Sarah AlKoblan, *Saudi Arabia*.
014. **Coding Schemes for Observational Studies of Usability in Collaborative Tangible User Interfaces**
Tarfah Alrashed, *Saudi Arabia*; Almaha A Almalki, *United States*; Salma Aldawood, Anas Alfaris, Areej Al-Wabil, *Saudi Arabia*.
015. **Examining the User Experience (UX) of Children's Interaction with Arabic Interfaces in Educational Learning Contexts**
Weaam Alrashed, Asma A Alhussayen, *Saudi Arabia*.
016. **Requirements Engineering of Ambient Assisted Living Technologies for People with Alzheimer's**
Afnan AlRomi, Ghadah Al-Ofisan, Norah Naif AlRomi, Sulaf Almagooshi, Areej Al-Wabil, *Saudi Arabia*.
017. **Towards a Software Quality Model for Evaluating Medical Simulation Tools**
Norah Naif AlRomi, Areej Al-Wabil, *Saudi Arabia*.
018. **"See Medication" An Arabic Assistive Mobile Application For Asthmatic Visually Impaired Patients**
Afnan Fahad Alsadhan, Sarah Bin Mahfodh, Nada Alsuhebany, Hind Bin Ajlan, Hana Al-Alashaykh, Asma Alzahrani, Rafeef Aqel, *Saudi Arabia*.
019. **The Current Use of Cell Phone in Education**
Elham Alsadoon, Hamadah Alsadoon, *Saudi Arabia*.
020. **Virtually Augmented Social Skills Training**
Kevin Ambrose, *United States*.
021. **The Estimation of Taste Preference based on Prefrontal Cortex Activity**
Hirotoshi Asano, *Japan*.
022. **User Exploration of Search Space using Tradeoffs**
Zachi Baharav, David Gladstein, *United States*.
023. **Between the Profiles: Another such Bias. Technology Acceptance Studies on Social Network Services**
Katsiaryna S. Baran, Wolfgang G. Stock, *Germany*.
024. **Acceptance and Quality Perception of Social Network Standard and Non-Standard Services in Different Cultures**
Katsiaryna S. Baran, Wolfgang G. Stock, *Germany*.
025. **Destination 2050: a Technology Trajectory for Human Factors and Commercial Vehicles**
Melissa Bedinger, Guy Walker, Maja Pieczyk, Philip Greening, *United Kingdom*.
026. **The Proteus Effect: Influence of Avatar Appearance on Social Interaction in Virtual Environments**
Yulong Bian, Chao Zhou, Yu Tian, Peng Wang, Feng Qiang Gao, *P.R. China*.
027. **Dynamic Operations Wayfinding System (DOWS) for Nuclear Power Plants**
Ronald Laurids Boring, Thomas A Ulrich, Roger Lew, *United States*.
028. **Investigating the Role of Haptic Stimulation in Mobile Meditation Tools**
Antoinette L Bumatay, Jinsil Hwaryoung Seo, *United States*.

029. **AR and Maintenance - Visualization of Process Data and Engineering Information**
Sven Buyer, Carsten Wittenberg, *Germany*.
030. **Design of Web-based Tools to Study Blind People's Touch-Based Interaction with Smartphones**
Maria Claudia Buzzi, Marina Buzzi, Barbara Leporini, Amaury Trujillo Larios, *Italy*.
031. **Building Virtual Roads from Computer made Projects**
Carlos Campos, João Miguel Leitão, António Coelho, *Portugal*.
032. **Strengthening Connections: Intuitive Interfaces for Life Story Work in Elder Care**
Mahdi Chaker, Michael Cimerola, Marietta R. Scanlon, *United States*.
033. **The Influence of Parenting Time on Children's Growth and Development**
Jo-Han Chang, Tien-Ling Yeh, *Taiwan*.
034. **A study of User Behavior in the Parent-Child Reading Area: A Case Study in Taipei Public Library**
Jo-Han Chang, Pao-Ching Tsai, *Taiwan*.
035. **Usability Evaluation of The Smart TV**
Wen-Te Chang, Kuo-Chen Huang, Ching-Chang Chuang, *Taiwan*.
036. **Is Touch-based Text Input Practical for a Smartwatch?**
Barbara Chaparro, Jibo He, Colton Turner, Kirsten Turner, *United States*.
037. **Mettle: Reframing Messaging as a Felt Anticipation**
Amy Yo Sue Chen, Rung-Huei Liang, *Taiwan*.
038. **User Recognition and Preference of App Icon Stylization Design on the Smartphone**
Chun-Ching Chen, *Taiwan*.
039. **Acceptance of Integrated Active Safety Systems in China**
Junliang Chen, Zhengjie Liu, *P.R. China*; Paul A. Mendoza, Fang Chen, *Sweden*.
040. **Adaptive Depth Cue Adjustments of Interactive and Stereoscopic 3D Product Models for Design Education**
Li-Chieh Chen, Po-Ying Chu, Yun-Maw Cheng, *Taiwan*.
041. **The Instructional Model Framework of Undergraduate Industrial Design Core Course**
Wenzhi Chen, *Taiwan*.
042. **Toward a New Design Philosophy: Politics and the Aesthetic of "We" Human-And-Technology in Interaction Design**
Hyunkyong Cho, *United States*.
043. **Camouflage Assessment of Color Pattern Strategies in Different Environmental Contexts**
Woon Jung Cho, Minsun Kim, Eunji Lee, Suyoung Kim, JungHwan Han, Kwanghee Han, *Korea*.
044. **Eye Tracking Analysis of Readers' Psychological Interaction with Marketing Copy Referencing Life Values**
Miao-Hsien Chuang, Chin-Lung Chen, Jui-Ping Ma, *Taiwan*.
045. **Development of Serious Game for the Upper Arms Rehabilitation: "Balance Ball Rhythm Game" Case Study**
Sung-Taek Chung, Sung-Wook Shin, C. J. Lim, *Korea*.
046. **An Artificial Bee Colony Algorithm for the Resource Constrained Project Scheduling Problem**
Broderick Crawford, Ricardo Soto, Franklin Johnson, Enrique Norero, Eduardo Olguin, *Chile*.
047. **Creativity in Agile Software Development Methods**
Broderick Crawford, Kathleen Crawford, Ricardo Soto, Claudio Leon de la Barra, *Chile*.
048. **Towards a Framework for Adaptive Constraint Propagation**
Broderick Crawford, Ricardo Soto, Franklin Johnson, *Chile*; Eric Monfroy, *France*; Enrique Norero, Eduardo Olguin, *Chile*.
049. **Experiential Solving: Towards a Unified Autonomous Search Constraint Solving Approach**
Broderick Crawford, Ricardo Soto, Kathleen Crawford, Franklin Johnson, Claudio Leon de la Barra, Sergio Galdames, *Chile*.
050. **Recent Harmony Search Algorithms for 0-1 Optimization Problems**
Broderick Crawford, Ricardo Soto, Nestor Guzman, Franklin Johnson, Fernando Paredes, *Chile*.
051. **Usability of the Submission Process in a Journal System**
Ronnie F. De Brito, Milton Shintaku, *Brazil*.
052. **Multiple Scales Pilot Action Pattern Recognition during Flight Task Using Video Surveillance**
Lu Ding, Jia Bo, Qi Wu, Haiyan Liu, Shan Fu, *P.R. China*.
053. **Attentional Switch Characteristics are Correlated with the Performance of Simulated Aviation Task**
Feng Du, Jie Zhang, Mengnuo Dai, *P.R. China*.
054. **Texture Image Segmentation Using Spectral Clustering**
Hui Du, Yuping Wang, Xiaopan Dong, *P.R. China*; Yiu-ming Cheung, *Hong Kong*.
055. **Questionnaire Survey on Attention of Young Adults**
Junmin Du, Weiyu Sun, Xiaofan Wang, *P.R. China*.

056. **An Adaptive Particle Filtering for Solving Occlusion Problems of Video Tracking**
Lan-Rong Dung, Yu-Chi Huang, Ren-Yu Huang, Yin-Yi Wu, *Taiwan*.
057. **Improvement of Robustness of Nostrils Detection by Specifying the Existable 3D Domain of Nostrils based on Stereo Measurements of Nostrils and Pupils**
Yoshinobu Ebisawa, Kiyotaka Fukumoto, Hiroaki Tanaka, *Japan*.
058. **Development of a "Virtual Trip" Platform**
Hiroki Enno, *Japan*.
059. **Spatial Effect of Target Display on Visual Search**
Xiaoli Fan, Zhongqi Liu, Qianxiang Zhou, Fang Xie, *P.R. China*.
060. **Predicting and Visualizing Wine Characteristics Through Analysis of Tasting Notes From Viewpoints**
Brendan Flanagan, Nao Wariishi, Takahiko Suzuki, Sachio Hirokawa, *Japan*.
061. **Context-Aware Systems for Complex Data Analysis**
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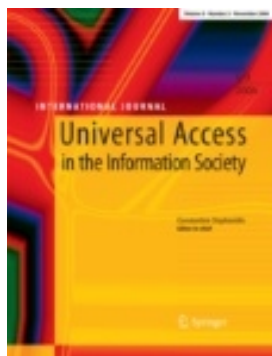
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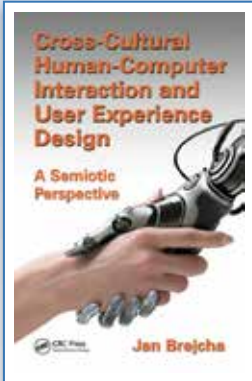
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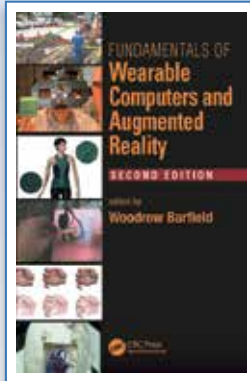
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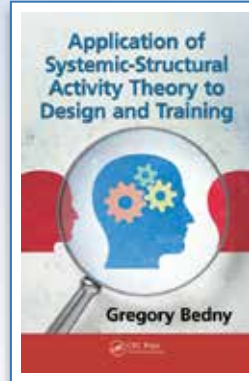
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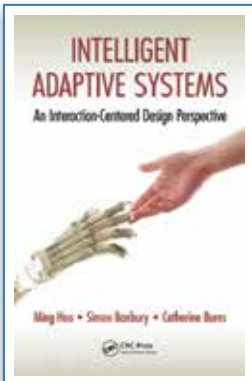


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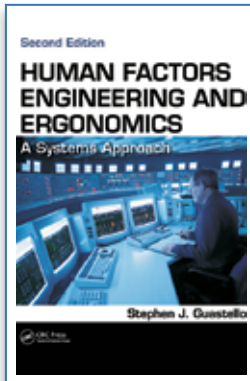
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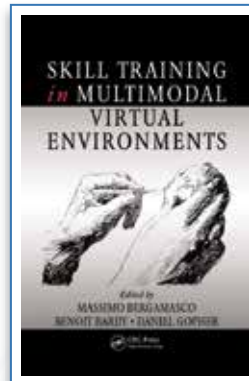
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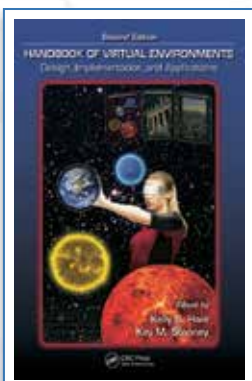
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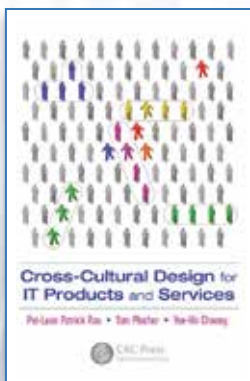
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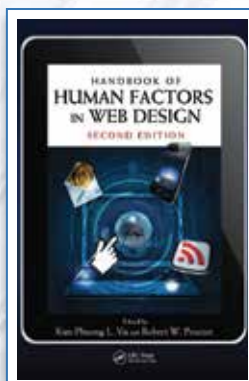
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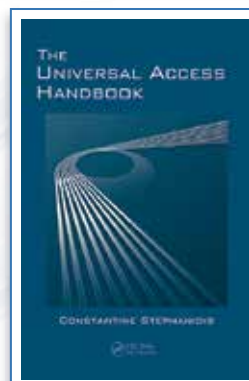
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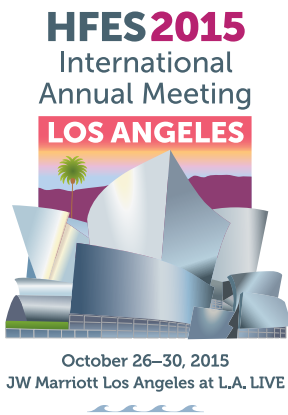
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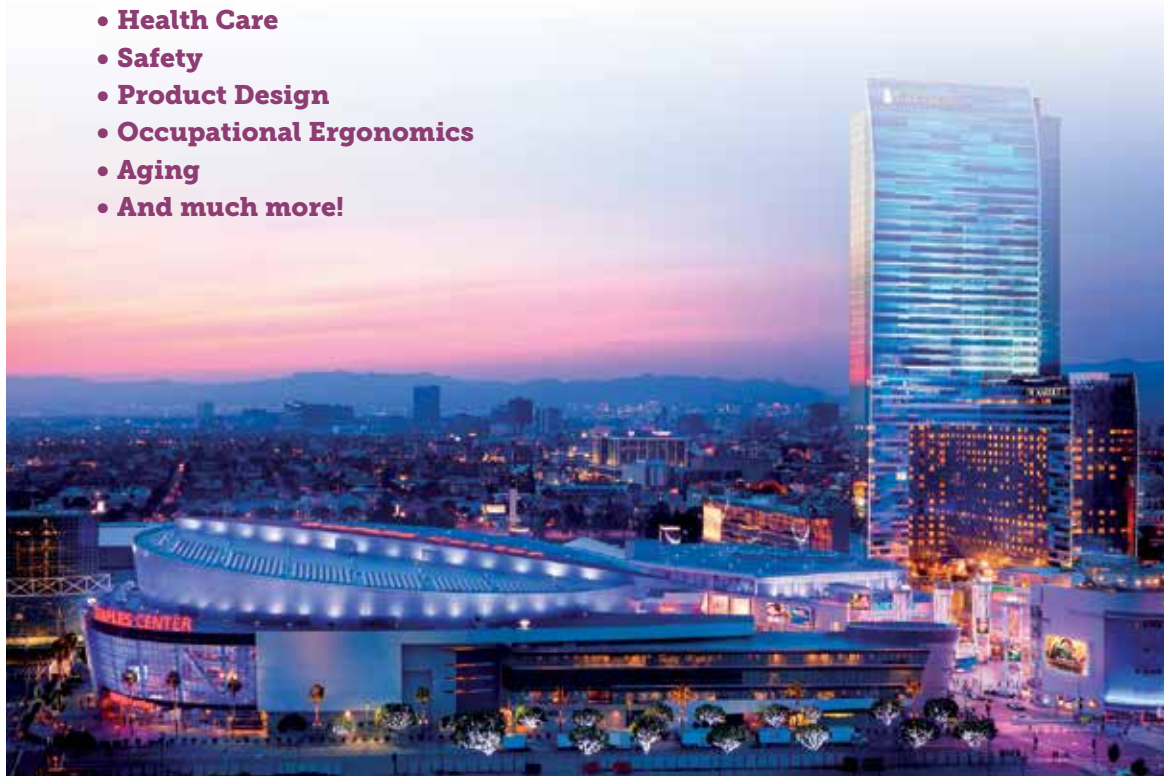
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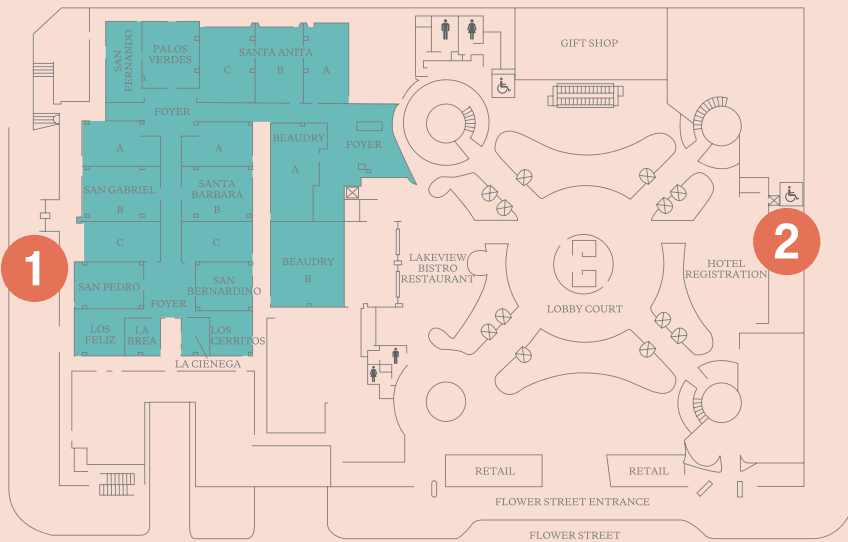
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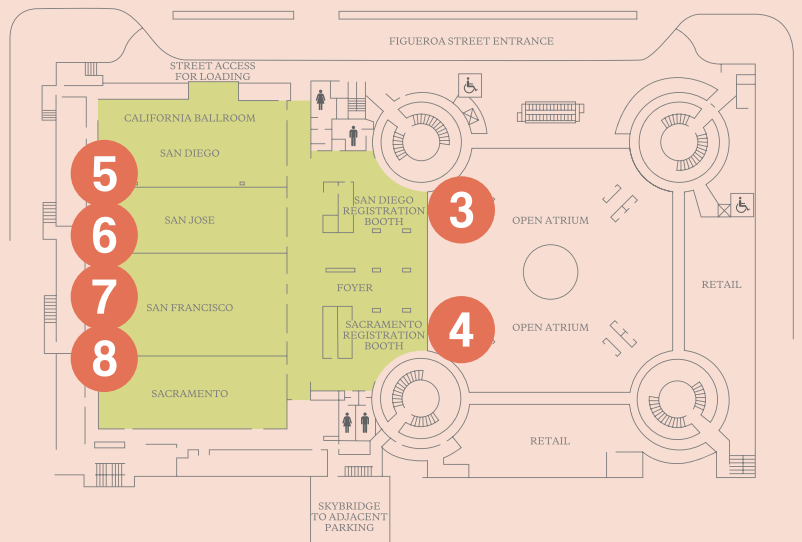
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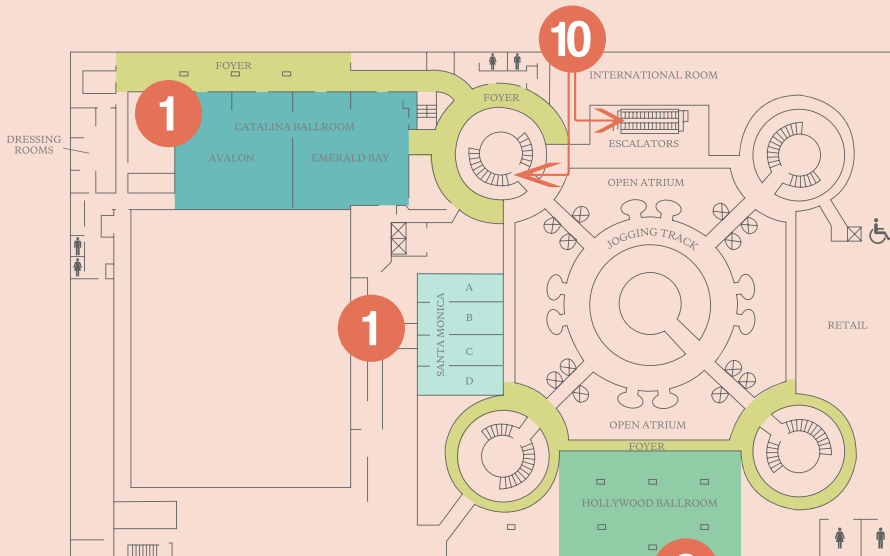
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