

# Exhibition

Monday & Tuesday • 9 am–5 pm • Wednesday • 9 am–4 pm • Augustus Ballroom

## Exhibition

You are invited to visit the Exhibition Hall where the leading organizations and posters will demonstrate the latest in HCI International 2005.

### Exhibitors

Advanced Brain Monitoring	Micro Analysis and Design
Aerospace Experimental Psychologies	Morgan Kaufmann Publishers
Anthrotronix	National Research Council of the National Academies
BMH Associates	Noldus Information Technology, Inc.
Boeing/AFRL	QinetiQ
Clemson University	QUASAR
Compumedics USA, Ltd.	Sandia National Laboratories
DaimlerChrysler Corporation	Springer
Design Interactive, Inc.	Seeing Machines
Electrical Geodesics	Taylor & Francis
Embry-Riddle Aeronautical University	TechSmith Corporation
Eye Response Technologies	Tobii Technology
Eye Tracking, Inc.	University of Hertfordshire
Florida Institute for Human and Machine Cognition	University of Illinois—Chicago and Industrial Virtual Reality
HCI International 2007	University of Virginia, Carnegie Mellon University and NovaSol
Honeywell	U.S. Army—Aberdeen Test Center
Human Bionics	User Centric, Inc.
ICS-Forth	VIRTE
Infrascan	VMASC/Old Dominion University
Lawrence Erlbaum Associates, Inc. Publishers	VRsonic Inc.
LC Technologies, Inc.	Wiley Publishing
Li Creative Technologies	
Lockheed Martin Advanced Technology Laboratories	
Mangold Software & Consulting	

### Transport Safety Risks: Should We Tolerate Human Error?

Mark Young, Brunel University, United Kingdom & John Faulkner, University of New South Wales, Australia

### A Comparison of the Usability and Effectiveness of Web-Based Delivery of Instructions for Inherently 3-D Construction Tasks with PDAs

Michael Sharp, Rensselaer Polytechnic Institute, USA

### Outcome Measurement of Instillation of 0.45% Saline to Catheter Suction on the Endotracheal Patients

Tseng Yi, National Defense Medical Center, Taiwan

### AUI WALK—Online Usability Test Application for Performance Analysis of Auditory Mappings

Alexander Nischelwitzer & Gerald Janisch, University of Applied Sciences, Joanneum, Austria

### Design of 2-Dimension Fourier Interpolating Templates with Window

Li Wen-Yuan, Huang Xiang-Dong & Su Fei, Tianjin University, China

### Effects of Color Combination of Traditional Chinese Texts on Reading Time and Preference Rating in RSVP Displays

Shih-Miao Huang, National Formosa University, Taiwan, Borshuing Liu, San Jonan University of Science & Technology, Taiwan & Chien-Hsiung Chen, National Taiwan University of Science & Technology, Taiwan

### Human Error Seeds Simple Evaluation Method for Hospital Works

Yusaku Okada, Keio University, Japan

### Computer and Human Adebayo Olajobi, Muto Tech Communication, Nigeria

### Effects of Automation Reliability and Training on Monitoring Performance and Perceived Mental Workload

Indramani Singh & Anju Lata Singh, Banaras Hindu University, India

### Simulating the Visual System of Compound Eye of Insects by Computer

Huang Xiang-Dong & Li Wen-Yuan, Tianjin University, China

### Frequency Distributions for Names and Unconstrained Words Associated with the Letters of the English Alphabet

James Lewis, IBM Pervasive Computing Division, USA

### Architecture and Ergonomics: Designing in Virtual Reality—Future of Choice?

Katarzyna Ujma-Wasowicz & Adam Gil, Silesian University of Technology, Poland

### Using Personal Computers for Enhanced Presence Detection in Building Automation

Tobi Delbruck, Andi Fenkart & Raphael Zwiker, ETH/University of Zurich, Switzerland

### Using Universal Design Concepts for an Assistive Technology Certificate Program

Kirk Behnke, California State University, Northridge, USA

### A Typology of Website Genres

Abraham van der Vyver, Monash, SA, S. Africa

### Enhanced VoiceXML

Jose Rouillard, Universite des Sciences et Technologies de Lille, France & Philippe Truillet, Université Paul Sabatier, France

### A Dynamic and Interactive System for Managing the Information About the Reinforced Concrete Decay

Rossella Corrao, Antonio De Vecchi, Gabriella La Spina & Annalisa Marceca, University of Palermo, Italy

### Shortcut Integrated Agent as Search Front

Ryosuke Saga, Guiha Jim, Yasuhiko Onitsuka, Akinori Kageyama & Hiroshi Tsuji, Osaka Prefecture University, Japan

### Music Design Assistance Using Examples

Haruhiro Katayose, Kwansai Gakuin University, Japan

### Application of the Episodic Model Association Matrix to Interface Design

Peter Patsula, Nanyang Technological University, Singapore

### UKT—An Editing Tool for Multilingual Thesauri

Ute Koch, Social Sciences Information Center, Germany & Maximilian Eibl, GESIS, Germany

# & Posters

Presenters will be at their posters during the scheduled morning break (10-10:30 am) and afternoon break (3:30-4 pm) each day, and other times at the discretion of presenter.

## **The Assessment of Spatial Presence— The Role of Task Load and User-Related Factors**

Jari Laarni, Niklas Ravaja & Timo Saari,  
Helsinki School of Economics, Finland

## **Augmented Reality: New Approach for Creating Unique Working Environment**

Evgenia Chernenko & Tatiana Glotova,  
Joensuu Science Park, Finland & Esko  
Marjomaa, University of Joensuu, Finland

## **Privacy and Security in an On-Line Social Housing Community**

Linda Macaulay, University of Manchester,  
United Kingdom, Kathy Keeling,  
Manchester Business School, United  
Kingdom & Peter McGoldrick, University  
of Manchester, United Kingdom

## **Harnessing the Power of a VoiceXML Engine to SMS Based HCI**

Jose Rouillard, Université des Sciences  
et Technologies de Lille, France & Herve  
Dutter, Converge Online, France

## **A Visual Environment for Tuning a Content-Based Vector Image Retrieval Engine**

Tania Di Mascio, Daniele Frigioni & Laura  
Tarantino, University of L'Aquila, Italy

## **Blended Learning and Multimedia for Adult People**

Francisco Cipolla Ficarra, F&F Multimedia  
Communications Corporation and  
Università degli Studi di Bergamo, Italy

## **A Single-Switch Performance Evaluation Tool**

Blaise Liffick, Millersville University, USA,  
Barry Romich, AAC Institute, USA & Katya  
Hill, Edinboro University, USA

## **Supporting Stakeholder Collaboration Through Pair Writing**

Adi Tedjasaputra & Eunice Ratna Sari,  
TRANSLATE-EASY, Indonesia

## **How Long Should a Task Take? Identifying Specification Limits for Task Times in Usability Tests**

Jeff Sauro, Oracle Inc., USA & Erika  
Kindlund, Intuit, Inc., USA

## **Color Design Support by Color Selection Strategy Mapping Based on Designer Goals**

Eric Cooper & Katsuari Kamei, Ritsumeikan  
University, Japan

## **Reducing the Design Complexity of Auditory Environments**

Palle Klante, OFFIS Research, Germany

## **Evaluating the Relationship Between the Man and the Computer: Interaction, Substitution or Maintenance?**

Edson Paladini, Universidade Federal  
de Santa Catarina, Brazil

## **Designer's Touch on Software Products**

Ekin Dino & Cigdem Erbug, Middle East  
Technical University, Turkey

## **Human Prosocial Response to Facial Expression of Interactive Agent**

Yugo Takeuchi, Shizuoka University,  
Japan & Takuro Hada, Nihon Denwa  
Shisetsu, Japan

## **An Interactive Hybrid Swarm Optimization**

Qing Luo, Haiyu Hou & Gerry Dozier,  
Auburn University, USA

## **Analysis of Mediated Social Interactions: A Matrix of Methodological Confounds**

Chad Harms, Iowa State University, USA

## **Human Interface Design for Controlling Home Appliances with Cellular Phones**

Haeinn Lee, Iowa State University, USA

## **Compensating for the Eye-Hand Span Improves Gaze Control in Human-Computer Interfaces**

Mei Xiao, Judelande Hyppolite, Marc  
Pomplun & Sindhura Sunkara, University  
of Massachusetts at Boston, USA &  
Elena Carbone, University of Bielefeld,  
Germany

## **Automatic Lettering Design Based on Human Kansei**

Masazumi Miyoshi, Yoshifumi Shimoshio  
& Hiroaki Koga, Kumamoto National  
College of Technology, Japan

## **A Study on the Effects of the Usability of Products on User's Emotions—With Emphasis on an Extraction of User's Representative Emotions Expressed While Using Products**

Sang-Hoon Jeong & Kun-Pyo Lee,  
KAIST, S. Korea

## **Text-Based Communication Enhanced by Sharing Human Senses of Values Based on the Agreement Strength of Responding Phrases**

Masayuki Ihara & Minoru Kobayashi,  
NTT Corporation, Japan

## **Emphasis as an Extra-Linguistic Marker for Resolving Spatial and Temporal Ambiguities in Machine Translation for a Speech-to-Speech System Involving Greek**

Christina Alexandris, Stavroula-Evita F.  
Fotinea & Eleni Efthimiou, Institute for  
Language and Speech Processing, Greece

## **Growing Virtuality in a Professional Association—A Data Driven Approach**

Karsten Boye Rasmussen, University of  
Southern Denmark, Denmark & Repke  
de Vries, Royal Library of the Netherlands,  
The Netherlands

## **Understanding the User Model of the Elderly People While Using Mobile Phones**

Hsien-Hui Tang & Shih-an Kao, Chang  
Gung University, Taiwan

## **Collaborative Work with Adapted Data** Martin Klima & Pavla Slavik, Czech Technical University in Prague, Czech Republic

## **Autonomic Gaze Control of Avatars Using Voice Information in Virtual Space Voice Chat System**

Kinya Fujita, Toshimitsu Miyajima &  
Takashi Shimoji, Tokyo University of  
Agriculture & Technology, Japan

## **Unlocking Potential of Research Projects for Broader Access to Education and Learning**

Michela Ott, Lucia Ferlino & Mauro  
Tavella, Istituto Tecnologie Didattiche-  
CNR, Italy

## **On the Roles of a Modality- Independent and Task-Independent Dialogue Manager**

Frederic Landragin & Celestin Sedogbo,  
Thales Research & Technology, France

## **Interactive Image Exploration Using Relational Annotated Images** Marcel Goetze & Stefan Schlechtweg, Otto-von-Guericke University of Magdeburg, Germany

## **Context Cube: Conceptual Framework of Context-Awareness for Ubiquitous Interaction Design** Hyun-Jhin Lee, Hongik University, S. Korea & Hyun-Jeong Kim, KAIST, S. Korea

## **Bi-Modal Interaction Loop for a Geo-Spatial Query**

Franck Dumoncel & Cyril Bazin, Greyc-  
Université de Caen, France, Mauro Gao,  
LIUPPA-Université de Pau, France &  
Jacques Madelaine, Greyc-Université de  
Caen, France

## **An Approach to Optimizing the Employment of Training Media to Facilitate the Rapid Acquisition of Complex Satellite Systems Knowledge**

Charles Barba, CHI Systems, Inc., USA,  
H. Barbara Sorensen, Air Force Research  
Laboratory, USA, Amanda Hafich &  
Kelly Neville, CHI Systems, Inc., USA

## **Translating & Extending 2 Gestalt Grouping Principles to Include Time to Characterize Visual Motion on Screen: Good Continuation & Closure**

Jinsook Kim & Sharon Poggenpohl,  
Institute of Design, IIT, USA

## **Signification in Graphical User Interface Design**

Rodrigo Campos, Pontifical University  
do Rio de Janeiro, Brazil

## **Counting Effective Number of Buttons: An Informational Analysis of Input Device Performance**

Toru Nakata, National Institute of  
Advanced Industrial Science &  
Technology, Japan

## **Turn-Taking in Controlled JSL Conversation**

Eishi Watanabe, Kogakuin University,  
Japan, Mina Terauchi, Polytechnic  
University, Japan, Yuji Nagashima,  
Kogakuin University, Japan & Kazuyuki  
Kanda, Chukyo University, Japan

## **A Comparative Study of the Influence of Color as Culture-Dependent Design Element for Comfortable Websites** Erika Saheki, Inoue Tomoyuki & Roberto Okada, Miyagi University, Japan

## **The Interaction Between ICT and Psychosocial Life Environment: From Young Urban Knowledge Workers to Students in School** Ulrika Danielsson, Mid Sweden University, Sweden & Karin Danielsson, Umea University, Sweden

## **Shared Cognition and Resource Coordination in Distributed Decision-Making Teams** Rita Vick, Quantum Leap Interactive, Inc., USA & Joseph McNamara, Quantum Leap Innovations, USA