# Program

## Day 1: Tuesday, 28 August, 2012

**Conference Registration Open**
12:00

**Breaks**
15:00 - 15:30 and 17:30 - 18:00

**Welcome Reception**
Starting at 18:00

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<th>13:00 - 15:00</th>
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<td>Tutorial 1</td>
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<tr>
<td>Cognitive Psychological Cognitive Science and UI, UX</td>
<td>Sci-Fi and HCI/CHI</td>
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<td>Workshop 1A</td>
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<td>Cross Culture Human Interface Design</td>
<td>Incorporating Kansei Experience into the Design</td>
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<td>Re-discovering the context of UX</td>
<td>Re-discovering the context of UX</td>
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## Day 2: Wednesday, 29 August, 2012

**Early Registration Deadline**
Closed.

Camera-ready Paper Deadline
July 2nd.

**APCHI 2012 CFPs**

[English (PDF)]
[Simplified Chinese (PDF)]
[Japanese (PDF)]

**Twitter Feeds**

APCHI 2012
9:00 - 9:30  
**Keynote1: Dr. Shumin Zhai**

9:30 - 10:30  
**Keynote2: Prof. Asako Kimura**

17:15 - 18:15  
**Lunch**

12:30 - 14:00  
**Breaks**

10:30 - 11:00 and 17:00 - 17:15  
**Banquet**

The departure time of the bus is 18:30

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<th>11:00 - 12:30</th>
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| **Session 1A**
**Haptic and Model**
| **Session 1B**
**UCD and UED**
| **Session 1C**
**Game**
| **Panel**
**Case Studies of HCD in Japan**
| **Session 2A**
**Interaction by Hand and Foot**
| **Session 2B**
**Usability and Text Entry**
| **Session 2C**
**Social**
| **Industrial Session**

**Haptic and Model**

An Investigation of the Relationship between Texture and Human Performance in Steering Tasks

- Minghui Sun (Kochi University of Technology/RIKEN)
- Xiangshi Ren (Kochi University of Technology)
- Shumin Zhai (Google Research)
- Toshi Mukai (RIKEN)

**A Model to Evaluate Aesthetics of Short Animations**

- Devadeep Shyama (IIT Guwahati)
- Samit Bhattacharya (IIT Guwahati)

**A Geometric Model for Measuring Depth Perception in Immersive Virtual Environment**

- Sunu Wibirama (Tokai University)
Method for Estimating Inclusion/Absence of Topic Paths in Webpages
- Hidehiko Okada (Kyoto Sangyo University)
- Hiroshi Kamishima (Kyoto Sangyo University)

Easy Shop: An Interactive Application to Assist In-Store Shopping
- Vidya Srinivasan (North Carolina State University)
- Prashanth Raghavan (North Carolina State University)
- Bala Anirudh Kurakula (North Carolina State University)
- Pavan Gopal Bandla (North Carolina State University)

Trends of Driver Support Technologies in Japan
- Hiroshi TAKAHASHI (Shonan Institute of Technology)

An Employed Mother’s Perspective Towards the use of Technology to Enhance Emotional Connection with Her Baby
- Dinithi Nallaperuma (Keio-NUS Cute Center, IDMI)
- Shruti Priya Iyer (Keio-NUS Cute Center, IDMI)
- Ajith Madurapperuma (Keio-NUS Cute Center, IDMI)
- Zubair Amin (NUHS)
- Annett Schirmer (NUS)

The Efficacy of Digitization of Picture Books in Reading to Young Children
- Hanae Yamazoe (Waseda University/JSPS)
- Sumire Kiyono (Waseda University)
- Miyuki Kimura (Froebel-kan co.,ltd)
- Seiji Yoshida (Froebel-kan co.,ltd)
- Takashi Kawai (Waseda University)

Game

Enhancing Collaboration in Tabletop Board Game
- Taoshuai Zhang (Tsinghua University)
- Jie Liu (Tsinghua University)
- Yuanchun Shi (Tsinghua University)

The Influence of Cooperative Game Design Patterns for Remote Play on Player Experience
- Anastasiia Beznosyk (Hasselt University)
- Peter Quax (Hasselt University)
- Karin Coninx (Hasselt University)
- Wim Lamotte (Hasselt University)
Interaction by Hand and Foot

Novel Interaction Techniques Based on a Combination of Hand and Foot Gestures in Tabletop Environments

- Nuttapol Sangsuriyachot (The University of Tokyo)
- Masanori Sugimoto (The University of Tokyo)

A Comparison of Flick and Ring Document Scrolling in Touch-based Mobile Phones

- Huawei Tu (Kochi University of Technology)
- Feng Wang (Kunming University of Science and Technology)
- Feng Tian (Chinese Academy of Sciences)
- Xiangshi Ren (Kochi University of Technology)

Human Gait Estimation by Footstep Tracking on a Floor Sensing Device

- Mika Oikawa (Shimane University)
- Naoko Tanijiri (Shimane University)
- Masahito Hirakawa (Shimane University)

A Potential Exploration of Finger-Specific Interaction

- Yu Suzuki (Kyoto Sangyo University)
- Kazuo Misue (University of Tsukuba)
- Jiro Tanaka (University of Tsukuba)

Usability and Text Entry

Tag-based interaction in online and mobile banking: What is the usability and overall user satisfaction?

- Rajinesh Ravendran (Queensland University of Technology)
- Ian MacColl (Queensland University of Technology)
- Michael Docherty (Queensland University of Technology)

Error Quantifying Metrics Text Entry Systems Augmented with Word Prediction

- Manoj Kumar Sharma (Indian Institute of Technology Kharagpur)
- Pradipta Kumar Saha (Indian Institute of Technology Kharagpur)
- Sayan Sarcar (Indian Institute of Technology Kharagpur)
- Soumalya Ghosh (Indian Institute of Technology Kharagpur)
- Debasis Samanta (Indian Institute of Technology Kharagpur)
- Monalisa Sarma (Indian Institute of Technology Indore)

Usability Evaluation of IVR Systems with Visual Aids

- Arnab Chakravarty (IDC, IIT Bombay)
- Anirudha Joshi (IDC, IIT Bombay)
Social life logging: Can we describe our own personal experience by using collective intelligence?
- Koh SUEDA (National University of Singapore/The University of Tokyo)
- Henry Been-Lirn Duh (National University of Singapore)
- Jun Rekimoto (The University of Tokyo/Sony CSL)

A Classification of Opening Posts in Commercial Software Help Forums
- Xiaole Kuang (National University of Singapore)
- Bo Yi (National University of Singapore)
- Shengdong Zhao (National University of Singapore)
- Jianann Chow (National University of Singapore)
- Tovi Grossman (Autodesk Research)
- George Fitzmaurice (Autodesk Research)

A Scene Explorer for TV Programs based on Twitter Emotion Analysis
- Takashi Yamauchi (Seikei University)
- Yukiko Nakano (Seikei University)

Sociable Spotlights: Cognitive Artifacts to Enhance Engagement in Conversation
- Naoki Ohshima (Toyohashi University of Technology)
- Yuta Yamaguchi (Toyohashi University of Technology)
- Ravindra De Silva (Toyohashi University of Technology)
- Michio Okada (Toyohashi University of Technology)

Promoting Patient Safety on Social Media: A Comparison between Social Media and Newspaper
- Na Sun (Institute of Human Factors and Ergonomics)
- Patric Rau (Institute of Human Factors and Ergonomics)

Day 3: Thursday, 30 August, 2012

Conference Registration Open
8:30
Breaks

10:30 - 11:00 and 17:00 - 17:15

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<th>Session 5A Multimodal</th>
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<th>Session 7A Touch</th>
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Session 4B

Ergonomics Design

Session 5B Gesture and User Experience

Session 6B Home

Session 7B UI Design and Framework

Session 4C

Robot and Agents

Session 5C Robot and VR

Session 6C Elderly

Session 7C Planning and Measuring

Panel

Optimism vs. Pessimism: Perspectives about the Future from Sci-Fi Movies

Panel Which is more important - Specialist vs. Knowledge

3D pointing

Select Ahead: Efficient Object Selection Technique Using the Tendency of Recent Cursor Movements

- Soonchan Park (KAIST)
- Seokyeol Kim (KAIST)
- Jinah Park (KAIST)

3D Object Selection for Hand-held Auto-stereoscopic Display

- Euijae Ahn (Korea University)
- Hyunseok Yang (Korea University)
- Gerard Kim (Korea University)

An exploration of interaction styles for navigating 3D environments in large displays using a mobile device

- James Trenchard (University of Manitoba)
- Hai-Ning Liang (Xi'an Jiatong-Liverpool University)
- Myron Semegen (Industrial Technology Center)
- Pourang Irani (University of Manitoba)

User Gaze Detection on Arbitrary Objects Using Physical Sensors and an Eye Tracker in a Real Environment

- Takumi Toyama (German Research Center for Artificial Intelligence (DFKI))
- Thomas Kieninger (German Research Center for Artificial Intelligence (DFKI))
- Andreas Dengel (German Research Center for Artificial Intelligence (DFKI))
• Gerard Kim (Korea University)

The Groovepad: Ergonomic Integration of Isotonic and Elastic Input for Efficient Control of Complementary Subtasks
• Alexander Kulik (Bauhaus-University, Weimar)
• Andre Kunert (Bauhaus-University, Weimar)
• Bernd Froehlich (Bauhaus-University, Weimar)

Effects of Notebook Computer Workstation Settings on Muscle Activity, Discomfort, Postural Risk, and Satisfaction
• Praphatson Klangsin (Mahidol University)
• Keerin Mekhora (Mahidol University)
• Suebsak Nanthavanij (Thammasat University)
• Wattana Jalayondeja (Mahidol University)

Observation of Median Neural Tension during 4 Hours of Continuous Computer Use
• Rujiret Upiriyasakul
• Keerin Mekhora
• Wattana Jalayondeja

Robot and Agents

Pygmy: A ring-shaped robotic device that promotes the presence of an agent on human hand
• Masayasu Ogata (Keio University)
• Yuta Sugiura (Keio University)
• Hirotaka Osawa (Keio University)
• Michita Imai (Keio University)

Motion design of an interactive small humanoid robot with visual illusion
• Hidenobu Sumioka (ATR Hiroshi Ishiguro Lab.)
• Takashi Minato (ATR Hiroshi Ishiguro Lab.)
• Kurima Sakai (Osaka University)
• Shuichi Nishio (ATR Hiroshi Ishiguro Lab.)
• Hiroshi Ishiguro (ATR Hiroshi Ishiguro Lab.)

Characteristics of Robots and Virtual Agents in regard to Persuasion to Maintain Motivation
• Kaoru Sumi (Future University Hakodate)
• Mizue Nagata (Jumonji University)

Facilitating creative interpretations on collaboration with multiple conversational agents
• Yugo Hayashi (Ritsumeikan University)
Brain-Computer interface (BCI): Is it strictly necessary to use random sequences in visual spellers?

- Manson Cheuk-Man Fong (The Chinese University of Hong Kong)
- James William Minett (The Chinese University of Hong Kong)
- Thierry Blu (The Chinese University of Hong Kong)
- William Shi-Yuan Wang (The Chinese University of Hong Kong)

Multimodal Interrupt: Distributing Stimulation for Gentle but Clear Notification

- Myunghee Lee (Korea University)
- Gerard Kim (Korea University)

Characteristics of Information Recognition via Small Size Screen

- Masahiko Nawate (Shimane University)
- Tatsuya Fujikawa (Shimane University)

Gesture and User Experience

Area Gestures for a Laptop Computer Enabled by a Hover-Tracking Touchpad

- Sangwon Choi (KAIST)
- Jiseong Gu (KAIST)
- Jaehyun Han (KAIST)
- Geehyuk Lee (KAIST)

An Interaction System Using Mixed Hand Gestures

- Zhong Yang (Zhejiang University)
- Yi Li (Zhejiang University)
- Yang Zheng (Zhejiang University)
- Weidong Chen (Zhejiang University)

PeGi: Motivating Exercise with a Pedometer-Gift Box

- Yuebin Yu (Carnegie Mellon University)
- Mark Gross (Carnegie Mellon University)
- Daihong Yu (University of Nebraska-Lincoln)

Cook-Friendly Input Interfaces Based on Cooking Situations

- Yu Suzuki (Kyoto Sangyo University)
- Kazuo Misue (University of Tsukuba)
Facial Design for Humanoid Robot
- Ichiroh Kanaya (Osaka University)
- Shoichi Doi (Osaka University)
- Shohei Nakamura (Osaka University)
- Kazuo Kawasaki (Osaka University)

- Amal Benzina (Technische Universitaet Muenchen)
- Arindam Dey (University of South Australia)
- Marcus Toennis (Technische Universitaet Muenchen)
- Gudrun Klinker (Technische Universitaet Muenchen)

Investigating Graphical Realism in a Virtual Environment for Threat Identification
- Joseph Sumerfield (Durham University)
- Shamus Smith (Durham University)

Pen and UI Design
Building Interactive Prototypes of Mobile User Interfaces with a Digital Pen
- Clemens Holzmann (University of Applied Sciences Upper Austria)
- Manuela Vogler (University of Applied Sciences Upper Austria)

Experimental Evaluation of Different Mode Switching Techniques in Pen-based Handheld Devices
- Huawei Tu (Kochi University of Technology)
- Xingdong Yang (University of Alberta)
- Feng Wang (Kunming University of Science and Technology)
- Feng Tian (Chinese Academy of Sciences)
- Xiangshi Ren (Kochi University of Technology)

User Participatory Sketching: A Quick-and-Dirty Method to Gather User Requirements
- Jinyi Wang (Stockholm University)
- Hannu Kuoppala (KONE)
- Robert Ramberg (Stockholm University)

Home
HomeOrgel: Interactive Music Box for the Aural Representation of Home Activities
Cooking Support with Information Projection onto Ingredient
- Yu Suzuki (Kyoto Sangyo University)
- Shunsuke Morioka (Kyoto Sangyo University)
- Hirotada Ueda (Kyoto Sangyo University)

Comprehending communication between caregivers and care recipients in families: a wellness-caring perspective
- Ju-Wei Huang (National Chiao Tung University)
- Pi-Hsu Wang (National Chiao Tung University)
- Hsin-Hui Chiu (National Chiao Tung University)
- Zhi-Xuan Shen (National Chiao Tung University)
- Yi-Shin Deng (National Cheng Kung University)
- Hsiao-Chen You (National Taichung University of Science and Technology)

Video Memo: Asynchronous Communication through a Video Message on a Table
- Shun Nakaigawa (University of Tsukuba)
- Shin Takahashi (University of Tsukuba)
- Jiro Tanaka (University of Tsukuba)

Eldery
Encoding time and Repetition effect on Recognition Memory Performance
- Chalermsiri Theppitak (University of Occupational and Environmental Health, Japan)
- Viet Lai (University of Occupational and Environmental Health, Japan)
- Yoshiyuki Higuchi, (University of Occupational and Environmental Health, Japan)
- Ganga Kumudini (University of Occupational and Environmental Health, Japan)
- Mehrnoosh Movahed (University of Occupational and Environmental Health, Japan)
- Hiroyuki Izumi (University of Occupational and Environmental Health, Japan)
- Masaharu Kumashiro (University of Occupational and Environmental Health, Japan)

Mental Model of Older Adults for Reminder System
- Fariza Hanis Abdul Razak (Universiti Teknologi MARA)
- Rafidah Sulo (Universiti Teknologi MARA)
- Wan Adilah Wan Adnan (Universiti Teknologi MARA)

Restrain From Pervasive Logging Employing Geo-Temporal Policies
- Mohsin Ali Memon (University of Tsukuba)
- Jiro Tanaka (University of Tsukuba)
Touch

Multi-Tapping Shortcut: A Technique for Augment-ing Linear Menus on Multi-Touch Surface
- Kentaro Go (University of Yamanashi)
- Hiroki Kasuga (University of Yamanashi)

Flexible Active Touch Using 2.5D display Generating Tactile and Force Sensations
- Satoshi Tsuboi (Nagoya University)
- Masahiro Ohka (Nagoya University)

Typing on a Touch Surface: Effect of Feedback with Horizontal Touch Keyboard and Vertical Display Setup
- Sunjun Kim (KAIST)
- Geehyuk Lee (KAIST)

An Empirical Evaluation on Finger’s Moving Direction on Direct Touch Displays
- Feng Wang (Kunming University of Science and Technology)
- Hui Deng (Kunming University of Science and Technology)
- Chenghui Chu (Kunming University of Science and Technology)
- Kaifan Ji (Kunming University of Science and Technology)
- Xiangshi Ren (Kochi University of Technology)
- Feng Tian (Chinese Academy of Science)

Establishing the Error Threshold for Alignment Tasks in Natural Direct-touch Interaction
- Feng Wang (Kunming University of Science and Technology)
- Hui Deng (Kunming University of Science and Technology)
- Xiangshi Ren (Kochi University of Technology)
- Feng Tian (Chinese Academy of Science)

UI Design and Framework

Designing a User Interface for a Painting Application Supporting Real Watercolor Painting Processes
- Jiho Yeom (KAIST)
- Geehyuk Lee (KAIST)

Docking Window Framework: Supporting Multitasking by Docking Windows
- Hirohito Shibata (Fuji Xerox Co. Ltd.)
- Kengo Omura (Fuji Xerox Co. Ltd.)
Estimation of Awareness of Unconsciousness based on Physiological Responses

- Misako Yamagishi (Kanazawa Institute of Technology)
- Hideo Jingu (Kanazawa Institute of Technology)
- Nanae Kashiwase (Tokyo Metropolitan University)
- Keiko Kasamatsu (Tokyo Metropolitan University)
- Hiroaki Kiso (NEC Corp.)
- Shin'ichi Fukuzumi (NEC Corp.)

Planning and Measuring

RIM: Risk Interaction Model for Vehicle Navigation

- Linmi Tao (Tsinghua University)
- Lixia Meng (Tsinghua University)
- Fuchun Sun (Tsinghua University)

Planning-Capable Digital Signage System Using Multi-touch Display

- Ryusuke Endo (General Resource Ltd.)
- Kosuke Nakajima (Graduate Osaka University)
- Kazuyuki Fujita (Graduate Osaka University)
- Yuichi Itoh (Graduate Osaka University)
- Fumio Kishino (Kwansei Gakuin University)

Real-time Disaster Information Mapping System Enabling Effective Evacuation Path by Mutual Assistance

- Kayo Iizuka (Senshu University)
- Kyoko Yoshida (Senshu University)
- Yasuki Iizuka (Tokai University)

Users' Wayfinding Behavior in a Virtual Environment of Different Screen Sizes

- Chen Chien-Hsiung (National Taiwan University of Science and Technology)
- Huang Yu-Chang (National Taiwan University of Science and Technology)
- Chen Shih-Chieh (National Taiwan University of Science and Technology)
- Hsiao Wen-Hsin (National Taiwan University of Science and Technology)

Measuring User Performance in the Interaction with a Virtual Ballroom Dance Instructor

- Masaki Uejo (Ritsumeikan University)
- Hung-Hsuan Huang (Ritsumeikan University)
- Yuki Seki (Ritsumeikan University)
- Joo-Ho Lee (Ritsumeikan University)
Day 4: Friday, 31 August, 2012

Conference Registration Open
8:30

Keynote4: Prof. Marc Hassenzahl
11:00 - 12:00

Break
10:30 - 11:00

Closing Ceremony
12:00 - 13:00

9:00 - 10:30

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3D

User-defined Surface+Motion Gestures for 3D Manipulation of Objects at a Distance through a Mobile Device
- Cary Williams (University of Manitoba)
- Hai-Ning Liang (Xi'an Jiatong-Liverpool University)
- Myron Semegen (Industrial Technology Center)
- Pourang Irani (University of Manitoba)

Scan Modeling: 3D Modeling Techniques using Cross Section of a Shape
- Tatsuhito Oe (University of Tsukuba)
- Buntarou Shizuki (University of Tsukuba)
- Jiro Tanaka (University of Tsukuba)

Spring for 3 DOF
- Robin Vivian (ETIC laboratory)
- Jerome Dinet (ETIC laboratory)
- David Bertolo (LITA laboratory)

User-centered Space Registration for 3D Remote Interaction
How to Motivate People to Use Internet at Home: Understanding the Psychology of Non-active users
  - Momoko Nakatani (NTT)
  - Takehiko Ohno (NTT)
  - Akinori Komatsubara (Waseda University)
  - Shuji Hashimoto (Waseda University)

Drawing and Acting as User Experience Research Tools
  - Alexandre Fleury (Aalborg University)

Redesigning Mobile Conferencing for Rural India: An Activity Based Approach
  - Sarita Seshagiri (Samsung India Software Operations Pvt. Ltd.)
  - Milind Kaduskar (Samsung India Software Operations Pvt. Ltd.)
  - Pratibha Bhaskaran (Samsung India Software Operations Pvt. Ltd.)

A Comparison of Card-sorting Analysis Methods
  - Ather Nawaz (Copenhagen Business School)

CMC/CSCW

Effects of Trust on Group Buying Websites in China
  - Na Chen (the Institution of Human Factors & Ergonomics)
  - Pei-Luen Patrick Rau (the Institution of Human Factors & Ergonomics)

Estimation of Conversational Activation Level using Phonetic Information during Voice Chat
  - Yurie Moriya (Tokyo University of Agriculture and Technology)
  - Takahiro Tanaka (Tokyo University of Agriculture and Technology)
  - Toshimitu Miyajima (Tokyo University of Agriculture and Technology)
  - Kinya Fujita (Tokyo University of Agriculture and Technology)

The Technological Affordances of Online Dating Sites: A Comparative Study
  - Jeff Gavin (University of Bath)
  - Christine Griffin (University of Bath)

An adaptive search framework for supporting cooperative work in organizations
  - Papon Yongpisannop (Nara Institute of Science and Technology)
  - Passakorn Phanachitta (Nara Institute of Science and Technology)
  - Masao Ohira (Nara Institute of Science and Technology)
  - Kenichi Matsumoto (Nara Institute of Science and Technology)

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