

ICMI2007 Timetable

| 12 Mon. (Nagoya Noh Theater) | | 13 Tue. (Nagoya Noh Theater) | | 14 Wed. (Nagoya Noh Theater) | | |
|---|---|--|---------------------------------------|--|--------------|----------------------|
| Noh theater | Meeting room | Noh theater /Theater Foyer | Meeting room | Noh theater /Theater Foyer | Meeting room | |
| 9:20-Registration Opening | | 9:00-Registration 9:30-10:30 Keynote Dr. Norihiro Hagita | | 9:00-Registration 9:30-10:30 Keynote Prof. Dominic Massaro | | |
| 10:00-11:00 Keynote Dr. Yuri A Ivanov | | Break | | 10:30-10:40 Teaser Session | | |
| Break | | 11:00-12:15 Oral 3 Cross-modality | | 10:40-12:30 Poster III (Theater Foyer) | | 10:40-12:30 Demos |
| 11:30-12:45 Oral 1 Special Session Spontaneous Behavior 1 | | 12:20-12:30 Teaser Session | | Lunch | | |
| Lunch | | Lunch | | Lunch | | |
| 14:30-15:45 Oral 2 Special Session Spontaneous Behavior 2 | 16:10-18:00 Poster I, Doctral Spotlight | 14:00-16:20 Poster II (Theater Foyer) | 14:00-16:20 Demos | 14:00-15:15 Oral 5 Interactive Systems 1 | | |
| 15:50-16:10 Teaser Session | | Break | | 15:45-17:00 Oral 6 Interactive Systems 2 | | |
| | | 16:30-17:45 Oral 4 Meeting Application | Awards Closing Townhall meeting | | | |
| 18:00- Koto Concert | | | | | | |
| 18:30- Reception @Nagoya Noh Theater Restaurant | | 19:00- Banquet @Nagoya Marriott Associa Hotel | | | | |

Satellite Workshop

15 Thu. 9:00-18:00 Nagoya Marunouchi Tokyu Inn. 2F

Hall A

Tagging, Mining and Retrieval of Human Related Activity Information

Hall B

Multimodal Interfaces in Semantic Interaction

Seminar Room

Massive Datasets

Mon., November 12, 2007

Opening

Noh theater (9:50-10:00)

Keynote

Chair : Alexandros Potamianos

Noh theater (10:00-11:00)

Interfacing Life: A year in the life of a research lab

Dr. Yuri A. Ivanov(MERL, USA)

Oral 1 : Special Session Spontaneous Behavior 1

Chair : Jeff Cohn

Noh theater (11:30-12:45)

1. The Painful Face: Pain Expression Recognition using Active Appearance Models

Ahmed Bilal Ashraf, Simon Lucey, Jeffrey F. Cohn, Tsuhan Chen, Zara Ambadar, Ken Prkachin, Patty Solomon, Barry John Theobald

2. Faces of Pain: Automated Measurement of Spontaneous Facial Expressions of Genuine and Posed Pain

Gwen C. Littlewort, Marian Bartlett, Kang Lee

3. Visual Inference of Human Emotion and Behaviour

Shaogang Gong, Caifeng Shan, Tao Xiang

Oral 2 : Special Session Spontaneous Behavior 2

Chair : Jeff Cohn

Noh theater(14:30-15:45)

1. Audiovisual Recognition of Spontaneous Interest within Conversations

Bjoern Schuller, Ronald Mueller, Benedikt Hoernler, Anja Hoethker, Hitoshi Konosu, Gerhard Rigoll

2. How to Distinguish Posed from Spontaneous Smiles using Geometric Features

Michel Francois Valstar, Hatice Gunes, Maja Pantic

3. Eliciting, Capturing and Tagging Spontaneous Facial Affect in Autism Spectrum Disorder

Rana el Kaliouby, Alea Teeters

Teaser Session

Chair : Shunsuke Yoshida

Noh theater(15:50-16:10)

Poster I

Chair : Tsuneo Nitta

Meeting room (16:10-18:00)

1. Statistical Segmentation and Recognition of Fingertip Trajectories for a Gesture Interface

Kazuhiro Morimoto, Chiyomi Miyajima, Norihide Kitaoka, Katunobu Itou, Kazuya Takeda

2. A tactile language for intuitive human-robot communication

Andreas J. Schmid, Martin Hoffmann, Heinz Woern

3. Simultaneous Prediction of Dialog Acts and Address Types in Three-party Conversations

Yosuke Matsusaka, Mika Enomoto, Yasuharu Den

4. Developing and Analyzing Intuitive Modes for Interactive Object Modeling

Alexander Kasper, Regine Becher, Peter Steinhaus, Rueiger Dillmann

5. Extraction of Important Interactions of Medical Interviews Using Nonverbal Information

Yuichi Sawamoto, Yuichi Koyama, Yasushi Hirano, Shoji Kajita, Kenji Mase, Kimiko Katsuyama, Kazunobu Yamauchi

6. Towards Smart Meeting: Enabling Technologies and a Real-World Application

Zhiwen Yu, Motoyuki Ozeki, Yohsuke Fujii, Yuichi Nakamura

7. Multimodal Cues for Addressee-hood in Triadic Communication with a Human Information Retrieval Agent

Jacques Terken, Irene Joris, Linda De Valk

8. The Effect of Input Mode on Inactivity and Interaction Times of Multimodal Systems

Manolis Perakakis, Alexandros Potamianos

9. **Positional Mapping: Keyboard Mapping Based On Characters Writing Positions for Mobile Devices**
Ye Kyaw Thu, Yoshiyori Urano
10. **Five-Key Text Input Using Rhythmic Mappings**
Christine Szentgyorgyi, Edward Lank
11. **Toward Content-aware Multimodal Tagging of Personal Photo Collections**
Paulo Barthelme, Edward Kaiser, David McGee
12. **A Survey of Affect Recognition Methods: Audio, Visual and Spontaneous Expressions**
Zhihong Zeng, Maja Pantic, Glenn I. Roisman, Thomas S. Huang
13. **Real-time Expression Cloning using Appearance Models**
Barry-John Theobald, Iain A. Matthews, Jeffrey F. Cohn, Steven M. Boker
14. **Gaze-communicative Behavior of Stuffed-toy Robot with Joint Attention and Eye Contact based on Ambient Gaze-tracking**
Tomoko Yonezawa, Hirotake Yamazoe, Akira Utsumi, Shinji Abe
15. **Map Navigation with Mobile Devices: Virtual versus Physical Movement with and without Visual Context**
Michael Rohs, Johannes Schoening, Martin Raubal, Georg Essl, Antonio Krueger

Doctoral Spotlight

Meeting room (16:10-18:00)

1. **Sound Design to Increase Emission of Alpha Waves for Enhancing Consciousness Concentration**
Kazuhide Okada
2. **Disambiguating Speech Recognition Results through Efficient Multimodal Parsing**
Yong Sun

Reception

Nagoya Noh Theater Restaurant SHIRO(18:30-)

Tue., November 13, 2007

Keynote

Chair : Kazuya Takeda

Noh theater (9:30-10:30)

**The Great Challenge of Multimodal Interfaces towards Symbiosis of Human and Robots
Dr. Norihiro Hagita(ATR, Japan)**

Oral 3 : Cross-modality

Chair : Edward C. Kaiser

Noh theater (11:00-12:15)

1. **Can you Talk or only Touch-Talk?**
Maria Danninger, Leila Takayama, QianYing Wang, Courtney Schultz, Joerg Beringer, Paul Hofmann, Frankie James, Clifford Nass
2. **Designing Audio and Tactile Crossmodal Icons for Mobile Devices**
Eve Hoggan, Stephen Brewster
3. **A Study on the Scalability of Non-Preferred Hand Mode Manipulation**
Jaime Ruiz, Edward Lank

Teaser Session

Chair : Shunsuke Yoshida

Noh theater(12:20-12:30)

Poster II

Chair : Norihiro Hagita

Theater Foyer (14:00-16:20)

1. **VoicePen: Augmenting Pen Input with Simultaneous Non-Linguistic Vocalization**
Susumu Harada, T. Scott Saponas, James A. Landay
2. **A Large-scale Behavior Corpus Including Multi-Angle Video Data for Observing Infants' Long-term Developmental Processes**
Shinya Kiriya, Goh Yamamoto, Naofumi Otani, Shogo Ishikawa, Yoichi Takebayashi

3. **The MICOLE Architecture: Multimodal Support for Inclusion of Visually Impaired Children**
Thomas Pietrzak, Benoit Martin, Isabelle Pecci, Rami Saarinen, Roope Raisamo, Janne Javi
4. **Interfaces for Music Activities and Interfaces for Musicians are not the same:
The Case for CODES, a Web-based Environment for Collaborative Music Prototyping**
Evandro Manara Miletto, Luciano Vargas Flores, Marcelo Soares Pimenta, Jerome Rutily, Leonardo Santagada
5. **TotalRecall: Visualization and Semi-Automatic Annotation of Very Large Audio-Visual Corpora**
Rony Kubat, Philip DeCamp, Brandon Roy, Deb Roy
6. **Extensible Middleware Framework for Multimodal Interfaces in Distributed Environments**
Vitor M. N. Fernandes, Tiago Guerreiro, Bruno Araujo, Joaquim A. Jorge, João Pereira
7. **Temporal Filtering of Visual Speech for Audio-Visual Speech Recognition in Acoustically and Visually Challenging Environments**
Jong-Seok Lee, Cheol Hoon Park
8. **Reciprocal Attentive Communication in Remote Meeting with a Humanoid Robot**
Tomoyuki Morita, Kenji Mase, Yasushi Hirano, Shoji Kajita
9. **Password Management Using Doodles**
Naveen Sundar Govindarajulu, Sriganesh Madhvanath
10. **A Computational Model for Spatial Expression Resolution**
Andrea Corradini
11. **Disambiguating Speech Commands using Physical Context**
Katherine M. Everitt, Susumu Harada, Jeff Bilmes, James A. Landay

Demo

Meeting room (14:00-16:20)

1. **Paper Maps as an Entry Point for Tourists to Explore Wikipedia Content**
Johannes Schöning, Michael Rohs, and Antonio Krüger
2. **Multimodal Dialog System Using Hidden Information State Dialog**
Kyungduk Kim and Gary Geunbae Lee
3. **iFACe: Interactive Lip-sync Animation System Developmental Processes**
Tatsuo Yotsukura, Shinichi Kawamoto, Shigeki Matsuda and Satoshi Nakamura
4. **Gaze-communicative Stuffed-toy Robot with Joint Attention and Eye Contact based on Remote Gaze-tracking**
Tomoko Yonezawa, Hirotake Yamazoe, Akira Utsumi, and Shinji Abe
5. **Quizmaster Mushrooms: “Who is this” Quiz Dialogue System**
Minako Sawaki, Yasuhiro Minami, Ryuichiro Higashinaka, Kohji Dohsaka, Takeshi Yamada, Tatsushi Matsubayashi, Hideki Isozaki, and Eisaku Maeda

Oral 4 : Meeting Application

Chair : Mathew Turk

Noh theater (16:30-17:45)

1. **Automatic Inference of Cross-modal Nonverbal Interactions in Multiparty Conversations - Who Responds to Whom, When, and How? from Gaze, Head Gestures, and Utterances -**
Kazuhiro Otsuka, Hiroshi Sawada, Junji Yamato
2. **Influencing Social Dynamics in Meetings Through a Peripheral Display**
Janienke Sturm, Olga Houben-Van Herwijnen, Anke Eyck, Jacques Terken
3. **Using the Influence Model to Recognize Functional Roles in Meeting**
Wen Dong, Bruno Lepri, Alessandro Cappelletti, Alex Sandy Pentland, Fabio Pianesi, Massimo Zancanaro

Banquet

Nagoya Marriott Associa Hotel, Iris 16F (19:00-)

Wed., November 14, 2007

Keynote

Chair : Kenji Mase

Noh theater (9:30-10:30)

Just in Time Learning:

Implementing Principles of Multimodal Processing and Learning for Education

Prof. Dominic Massaro(UC Santa Cruz, USA)

Teaser Session

Chair : Shunsuke Yoshida

Noh theater(10:30-10:40)

Poster III

Chair : Fabio Pianesi

Theater Foyer (10:40-12:30)

1. **User Impressions of a Stuffed Doll Robot's Facing Direction in Animation Systems**
Hiroko Tochigi, Kazuhiko Shinozawa, Norihiro Hagita
2. **A Speech-Driven Embodied Entrainment Character System with Hand Motion Input in Mobile Environment**
Kouzi Osaki, Tomio Watanabe, Michiya Yamamoto
3. **Natural multimodal dialogue systems: A configurable dialogue and presentation strategies component**
Meriam Horchani, Benjamin Caron, Laurence Nigay, Franck Panaget
4. **Modeling Human Interaction Resources to Support the Design of Wearable Multimodal Systems**
Tobias Klug, Max Muhlhauser
5. **Speech Filtered Bubble Ray: Improving Target Acquisition on Display Walls**
Edward Tse, Mark Hancock, Saul Greenberg
6. **Using Pen Input Features as Indices of Cognitive Load**
Natalie Ruiz, Ronnie Taib, Yu Shi, Eric Choi, Fang Chen
7. **Automated Generation of Non-Verbal-Behavior for Virtual Embodied Agents**
Werner Breitfuss, Helmut Prendiger, Mitsuru Ishizuka
8. **Detecting Communication Errors from Visual Cues During the System's Conversational Turn**
Sy Bor Wang, David Demirdjian, Trevor Darrell
9. **Multimodal Interaction Analysis in a Smart House**
Pilar Manchon, Carmen del Solar, Gabriel Amores, Guillermo Perez
10. **A Multi-modal Mobile Device for Learning Japanese Kanji Characters through Mnemonic Stories**
Norman Lin, Shoji Kajita, Kenji Mase

Demo

Meeting room (10:40-12:30)

1. **Paper Maps as an Entry Point for Tourists to Explore Wikipedia Content**
Johannes Schöning, Michael Rohs, and Antonio Krüger
2. **Multimodal Dialog System Using Hidden Information State Dialog**
Kyungduk Kim and Gary Geunbae Lee
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5. **Quizmaster Mushrooms: "Who is this" Quiz Dialogue System**
Minako Sawaki, Yasuhiro Minami, Ryuichiro Higashinaka, Kohji Dohsaka, Takeshi Yamada, Tatsushi Matsubayashi, Hideki Isozaki, and Eisaku Maeda

Oral 5 : Interactive Systems 1

Chair : Gerard Sagerer

Noh theater (14:00-15:15)

1. **3D Augmented Mirror: A Multimodal Interface for String Instrument Learning and Teaching with Gesture Support**
Kia C. Ng, Tillman Weyde, Oliver Larkin, Kerstin Neubarth, Thijs Koerselman, Bee Ong
2. **Interest Estimation Based on Dynamic Bayesian Networks for Visual Attentive Presentation Agents**
Boris Brandherm, Helmut Prendinger, Mitsuru Ishizuka
3. **On-line multi-modal speaker diarization**
Athanasios K. Noulas, Ben J.A. Krose

Oral 6 : Interactive Systems 2

Chair : Francis Queck

Noh theater (15:45-17:00)

1. **Presentation Sensei: A Presentation Training System using Speech and Image Processing**
Kazutaka Kurihara, Masataka Goto, Jun Ogata, Yosuke Matsusaka, Takeo Igarashi
2. **The World of Mushrooms: Human-Computer Interaction Prototype Systems for Ambient Intelligence**
Yasuhiro Minami, Minako Sawaki, Kohji Dohsaka, Ryuichiro Higashinaka, Kentaro Ishizuka, Hideki Isozaki, Tatsushi Matsubayashi, Masato Miyoshi, Atsushi Nakamura, Takanobu Oba, Hiroshi Sawada, Takeshi Yamada, and Eisaku Maeda
3. **Evaluation of Haptically Augmented Touchscreen GUI Elements Under Cognitive Load**
Rock Leung, Karon MacLean, Martin Bue Bertelsen, Mayukh Saubhasik

Awards, Closing

Noh theater (17:00-17:15)

Townhall meeting

Noh theater (17:15-18:00)

Thur., November 15, 2007

Nagoya Marunouchi Tokyu Inn. 2F

In front of the Marunouchi subway station, exit #3

Hall A 9:00-17:20

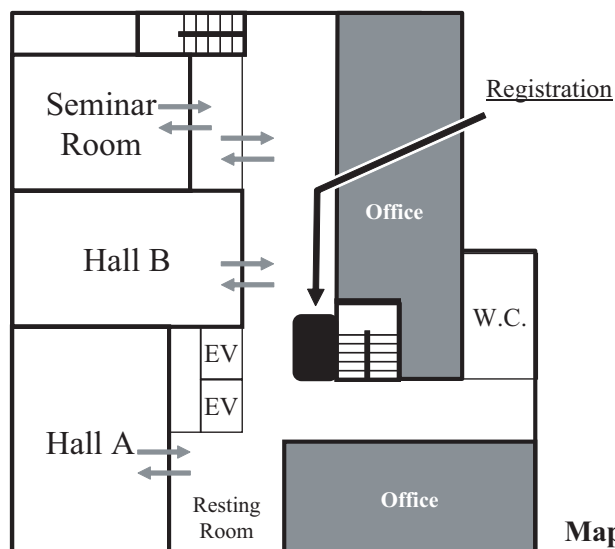
Workshop on Multimodal Interfaces in Semantic Interaction

Hall B 9:00-17:00

Workshop on Tagging, Mining and Retrieval of Human Related Activity Information

Seminar Room 9:00-17:00

Workshop on Massive Datasets



Map of Nagoya Marunouchi Tokyu Inn. 2F

Instruction for Presentation

Oral Presentation

Presentation times(including discussion are allocated to each presenters as follows.

- Keynote Lecture : 60 min.
- Oral Presentation : 25 min.

Beam projector and audio line are available for your presentation.

Poster Presentation

Poster presenters are provided with a poster board which size is 1m wide by 2m high. Your poster is not allowed to exceed this size. Double-stick tape is also provided on site.

Please note that the first day's presenter can put your poster up from AFTERNOON in the Meeting Room. The second and the third day's presenter can put it up from MORNING at the Theater Foyer. After closing of your session, please remove your poster.

In the poster session, you are requested to stay in front of your poster at least during core time. The core time is displayed on your poster board. Basically, posters having odd numbers (see Program, It's NOT your paper ID) are for the first half of the session and posters having even numbers are for the second half of the session.

DSS(Doctral Spotlight Session) presenters don't have core time. You are requested to keep your presentation during the whole session time.

All of poster and DSS presenters are requested to speak in one minute in the "Teaser Session" of your poster session's day.

Demo Presentation

Demo presenters are provided with a desk (1.8m wide), a poster board (2m wide by 2m high), and an AC outlet (100V). You can place poster(s) on the board to explain your demonstration. Double-stick tape is also provided on site. The setup time is scheduled in the morning of Tuesday, November 13. After the demo session in the morning of Wednesday, November 14, your demo equipments should be packed by 16:00.