



Call for Papers

The fifteenth ACM International Conference on Multimodal Interaction, ICMI 2013, will take place in Sydney, Australia, December 9-13, 2013. ICMI is the premier international forum for multidisciplinary research on multimodal human-human and human-computer interaction, interfaces, and system development. The conference focuses on theoretical and empirical foundations, component technologies, and combined multimodal processing techniques that define the field of multimodal interaction analysis, interface design, and system development. ICMI 2013 will feature a single-track main conference which includes: keynote speakers, technical full and short papers (including oral and poster presentations), special sessions, demonstrations, exhibits and doctoral spotlight papers. The conference will be preceded by a day including five Grand Challenges (see web site for full details) and followed by a day of workshops.

Topics of interest include but are not limited to:

Multimodal interaction processing

Machine learning, pattern recognition and signal processing approaches for the analysis and modeling of multimodal interaction between people and among the different modalities within people; adaptation and multimodal input fusion and output generation, addressing any combination of: vision, gaze, audio, speech, smell/olfaction, taste, gestures, pen input, haptic and tangible, bio-signals such as brain, skin conductivity, etc.

Interactive systems and applications

Mobile and ubiquitous systems, automotive and navigation systems, human-robot and human-virtual agent interaction, virtual and augmented reality, education, authoring, entertainment, gaming, telepresence, assistive and prosthetic systems, brain-computer interfaces, universal access, healthcare, biometry, intelligent environments, meeting analysis and meeting spaces, indexing, retrieval and summarization, etc.

Modeling human communication patterns

The modalities and the applications named above lead to a need for multimodal models of human-human and human-machine communication, including verbal and nonverbal interaction, affordances of different modalities, multimodal discourse and dialogue modeling, modeling of culture as it pertains to multimodality, long-term multimodal interaction, multimodality in social and affective interaction, multimodal social signal processing.

Data, evaluation and standards for multimodal interactive systems

Design issues, principles and best practices and authoring techniques for human-machine interfaces using any combinations of input and/or output multiple modalities. Architectures; assessment techniques and methodologies; corpora; annotation and browsing of multimodal interactive data; W3C and other standards for multimodal interaction and interfaces, evaluation techniques for multimodal systems.

Submissions in these areas are invited for workshop topics, special session topics, full papers, short papers, demos, and for the doctoral consortium. Topics on unimodal research are very welcome as long as they are novel and interesting.

The proceedings of ICMI 2013 will be published by ACM as part of their series of International Conference Proceedings. **Authors take note:** The official publication date is the date the proceedings are made available in the ACM Digital Library. This date may be up to two weeks prior to the start of ICMI. The official publication date affects the deadline for any patent filings related to published work.

Conference Venue

The conference will be held in Coogee Beach village of Sydney, a short bus ride from downtown. Apart from the reception and banquet, numerous social events are planned (e.g. bushwalks, snorkelling, surfing).

Important Dates

Workshop proposals	March 25th
Special session proposals	March 25th
Long and short paper submission	May 24th
Doctoral consortium submission	June 23rd
Demo proposals	June 30th
Reviews available, rebuttal period	Jul 13-20th
Main conference paper notification	August 9th
Camera-ready papers due	Sept 8th

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