



Analysis and Synthesis of Multimodal Human Communications for Perceptual Interface

*A special track of the **INTERNATIONAL SYMPOSIUM ON VISUAL COMPUTING 2006***

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Rationale: Multimodal systems offer the potential for considerable flexibility, broad utility, and use by a larger and more diverse population than ever before. The state-of-the-art technologies available for human-computer interaction (HCI) have lagged behind and most interfaces are hard to use, require extensive training, and often impede rather than support teamwork. The goal is to identify the challenges in fundamental understanding of multimodal human communications and its synergy with perceptual user interface; engineering applications in Computational Intelligence (CI); next generation Information Technologies (IT); Computational Linguistics (CL); Advanced Human-Computer Interface (HCI); Software Engineering (SE). The purpose of this special session is to bring together researchers from academia and industry with common interests in advanced CI, IT, SE, CL, HCI and their synergistic benefits.

Topics: Topics of interest may include (but not limited to):

- co-analysis of multimodal signal to improve emotion, gesture and speech recognition
- cognitive informatics and its interdisciplinary nature
- cognitive studies related to perceptive interface
- interoperability of heterogeneous platforms
- interactions with collaborative agents
- interactions with virtual/augmented/mixed reality
- learning and user modeling
- multimodal and collaborative interfaces,
- performance metric and usability studies to evaluate CI-based systems
- resolution in generating multimodal command and human machine dialogue
- speech, gesture and emotion enabled collaborative interface
- systems integration issues associated with perceptive user interfaces

Submission/Proceedings: This is an open call-for-papers. Only original, high-quality papers, in-line with the ISVC'06 standard guidelines (<http://www.isvc.net/author.html>), will be considered for publication in this special track. Prospective authors should submit electronically their contributions through the website of ISVC'06. Accepted papers will appear in the symposium proceedings which will be published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series.

Important Dates

Submission deadline: June 19, 2006

Notification of acceptance: July 31, 2006

Camera-ready version: August 14, 2006

Advance Registration: August 14, 2006

Organizing Committee

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