CALL FOR PAPERS

Special Issue

Multimodal Interfaces in
Cognitive Infocommunication Systems

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Humans and the infocommunications network surrounding them are merging
together at various levels, ranging from the level of interactions with personal
devices to the highest level of sensing collective behaviors such as mass movements,
mass habits etc. Consequently, humans and infocommunications will soon coexist as
an entangled web, resulting in an augmentation of natural cognitive capabilities. This
process of merging is occurring today, and is expected to gain further impact in the
near future.

Cognitive infocommunications (CogInfoCom) is an interdisciplinary field which
aims to reflect on this process of merging, by investigating the link between the
research areas of infocommunications and the cognitive sciences, as well as the
various engineering applications which have emerged as the synergic combination of
these sciences.

The primary goal of CogInfoCom is to provide a systematic view of how cognitive
processes can co-evolve with infocommunications devices so that the capabilities of
the human brain may not only be extended through these devices, irrespective of
geographical distance, but may also interact with the capabilities of any artificially
cognitive system. This merging and extension of cognitive capabilities is targeted
towards engineering applications in which artificial and/or natural cognitive systems
are enabled to work together more effectively.
Multi-modal interactions are strongly relevant to the way in which users expect to communicate and collaborate with each other and with infocommunications. For this special issue, we welcome technical, theoretical and overview papers which investigate new directions for multi-modal interactions from a CogInfoCom perspective.

Topics may include, but are not limited to:

- Awareness in collaborative environments
- Interfaces for Internet of Things and 3D Internet
- Tabletop computing
- Multimodal aspects of speech-based communication
- Augmented / virtual teleoperation and telemanipulation
- Interaction with virtual avatars

**Schedule:**

**Submission deadline:** July 31, 2013  
**Notification of acceptance:** September 15, 2013  
**Final paper submission:** October 15, 2013  
**Publication:** December 2013

**Instructions for authors:**

Submissions should be around 8-12 pages and must not have been previously published, with the exception that substantial extensions of conference and workshop papers (at least 30% new content) can be considered.

Authors are requested to follow instructions for manuscript submission to the Journal of Multimodal User Interfaces ([http://www.springer.com/computer/hci/journal/12193](http://www.springer.com/computer/hci/journal/12193)) and to submit manuscripts at the following link: [http://www.editorialmanager.com/jmui/](http://www.editorialmanager.com/jmui/). The article type to be selected is “SI-CogInfo”.

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