3rd IEEE Conference on Cognitive Infocommunications

Call for Papers

IEEE CogInfoCom 2012

TUKE, Košice, Slovakia
December 2-5, 2012

http://conf.uni-obuda.hu/coginfocom2012

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Scope:
Cognitive infocommunications (IEEE CogInfoCom) investigates the link between the research areas of infocommunications and cognitive sciences, as well as the various engineering applications which have emerged as the synergistic 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. For more detailed information please visit the official home-site of cognitive infocommunications at www.coginfocon.com.

Contributions are expected from the following areas:

Affective computing
Augmented cognition (AugCog)
Body area network
Brain-computer interface
Cognitive informatics and media
Cognitive linguistics
Cognitive robotics
Cognitive science

Media Informatics
Ethology-inspired engineering
Ethisci robotcs
Future internet
Human-computer and Human-robot interaction
Space research
Interactive systems engineering

Real and virtual avatars
Sensory substitution & sensorimotor extension
Teleoperation
Vehicle informatics
Virtual Reality Technologies and Scientific Visualization

The authors are encouraged to submit full papers describing original, previously unpublished, complete research, not currently under review by another conference or journal, addressing state-of-the-art research and developments. All papers will be reviewed and accepted papers will appear in the conference proceedings. Papers must be submitted electronically via EasyChair in IEEE format (double column A/4, 4-6 pages long).

IEEE: All accepted papers which meet IEEE requirements are going to be included into IEEE Xplore database after the conference.

Authors’ Schedule — DEADLINE EXTENDED!!!


Journal Publications
Selected Best Papers will be chosen (based on the quality and the level of presentation), to be submitted in CogInfoCom special issues of International Journals.

Track Committees
Those who would like to form a track committee to initiate new tracks in their fields of science or to introduce the results of the partners of their large scale international projects in one track are warmly welcome. Please kindly note that the minimum number of sessions is 3 per track and 1 session is of 4 publications. DEMO sessions and DEMO track organizers are also warmly welcome!

Already submitted track proposals:

Track I: Augmented Social Intelligence / Speech Science (Helen Meng, Nick Campbell, Géza Németh)
Track II: Cognitive Ergonomics / Human Factors of Infocommunication (Károly Hercegfi, Anita Komlódi, Laura Slaughter)
Track III: Vision-based Human Computer Interaction (Tamás Szirányi, Zoltán Vidnyánszky)
Track IV: Ethological Aspects of Communication between Heterogeneous Agents (Ádám Miklósi)
Track V: Cognitive Mobile Applications and Services (Hassan Charaf)
Track VI: Cognitive Social Signals: Computational and Behavioural Aspects of Human-Human and Human-Machine Interaction (Anna Esposito, Klara Vícsi, Alessandro Vinciarelli)
Track VII: Cognition (Claudiu Pozna, Radu-Emil Precup)
Track VIII: Visionair Project (Frédéric Noël)
Track IX: Emerging CogInfoCom Technologies in Industrial Oriented Research (Bjorn Solvang)

Track I:
Session I: Human System Interaction (László Kovács, Szilveszter Kovács)
Session II: Theoretical Aspects of Cognitive Infocommunications (Péter Baranyi, Ádám Csapó)
Session III: Augmented Social Intelligence / Speech Science (Helen Meng, Nick Campbell, Géza Németh)

Track II:
Session I: Human System Interaction (László Kovács, Szilveszter Kovács)
Session II: Theoretical Aspects of Cognitive Infocommunications (Péter Baranyi, Ádám Csapó)
Session III: Cognitive Ergonomics / Human Factors of Infocommunication (Károly Hercegfi, Anita Komlódi, Laura Slaughter)
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Track III:
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The IEEE CogInfoCom 2012 organizing committee invites proposals for demonstrations to be given at the conference. The demonstrations provide a forum for researchers as well as industry participants to demonstrate working systems, applications, tools or showcases of basic technologies to the conference attendees. The goal of the demonstrations is to showcase a spectrum of applications ranging from research prototypes to pilot solutions and even products that use cognitive infocommunications technology and provide functionality in the context of cognitive learning and information technology. For submissions to this event, it is very important to describe the demonstration setup, functionality and benefit to the viewer of the demonstration. Technical background discussion can be presented at the actual demonstration or can be submitted as an industry track or regular conference paper; the focus of the demonstrations themselves should be to show the functionality to viewers. Demonstrations are expected to be highly interactive.

Topics for demonstrations include but are not limited to:
- Affective computing
- Augmented cognition (AugCog)
- Body area network
- Brain-computer interface
- Cognitive informatics and media
- Cognitive linguistics
- Cognitive robotics
- Cognitive science
- Ethology-inspired engineering
- Etho-robotics
- 3D visualization and interaction
- Future internet
- Human-computer and Human-robot interaction
- iSpace research
- Interactive systems engineering
- Media Informatics
- Multimodal interaction
- Real and virtual avatars
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Demonstrations ideally showcase a system or application that clearly underlines the benefit of using and deploying cognitive infocommunications technologies. In addition, tools and basic technologies that implement or use cognitive infocommunications or cognitive infocommunications approaches are invited for demonstration. Any devices or hardware/software developments which build on, take into account and/or enable interaction between various levels of natural/artificial cognitive capabilities are welcome!

Demonstration Setup
The demonstrations are planned to be a single event during the conference, open to all conference attendees, with the goal of open and constructive discussions. One table will be provided with power as well as Internet connection. Posters can be displayed behind or next to the tables (depending on the space) either on pin boards or the wall. Demonstrators must bring any additional equipment they require as no equipment will be provided by the conference.

Demonstration Submissions
Authors submitting papers to the demonstrations must submit a 1/2-page paper that clearly outlines the demonstration that will be set up and the functionality a visitor to the demonstration can observe. The technical background, such as the architecture or algorithms, should not be described in detail; such a description would best be submitted to the industry track or main conference paper track. Including links to supporting material, e.g. a video on the web or a web-based demo itself, is highly encouraged. All submissions must follow the specific submission guidelines on the COGINFOCOM2012 web page. The accepted demonstration submissions will be included in the conference proceedings.

Please kindly indicate the intention of your DEMO participation via e-mail at your earliest convenience in order to help the organization of the event. Please include "[COGINFOCOM2012-DEMO]" in the subject of your emails and send them to ieee.coginfocom2012@sztaki.mta.hu.

Important Dates
- Demo Submission: 15 October, 2012
- Notification: 10 November, 2012
- Conference: 2-5th December, 2012 at the Technical University of Kosice, Slovakia

Submissions
Researchers and practitioners are invited to submit demo proposals to the demo co-chairs: to be decided

Note:
Every demo paper accepted for publication in the Proceedings of 3rd IEEE CogInfoCom 2012 MUST be presented during the conference.