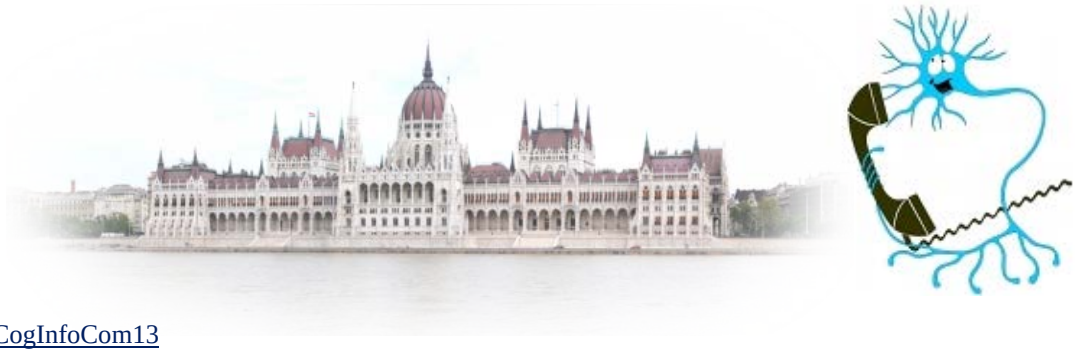
4th IEEE Conference on Cognitive Infocommunications

Call for Papers

CogInfoCom 2013



Budapest, Hungary
December (~1)2-5, 2013

http://coginfocom.hu/conference/CogInfoCom13

UNDER DEVELOPMENT

Organizers: MTA SZTAKI, BME TMIT, Óbuda University

Contact address
ieee.coginfocom2013@sztaki.mta.hu

Sponsors: IEEE Hungary Section

Scientific co-sponsor: FIRST Project

Technical co-sponsor: Visionair Project

Industrial co-sponsor: PPM AS, Norway, www.ppm.no

Scope

CogInfoCom is a new interdisciplinary field of science defined as follows:

Cognitive infocommunications (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 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.

For more information on CogInfoCom please visit its official home-site at www.coginfocom.hu.

Contributions are expected from the following areas

- 3D visualization and interaction
- Affective computing
- Augmented cognition (AugCog)
- Body area network
- Brain-computer interface
- Cognitive control
- Cognitive informatics and media
- Cognitive linguistics
- Cognitive robotics
- Cognitive science
- Ethology-inspired engineering
- Etho-robotics
- Future internet
- Interaction capabilities of CogInfoCom Systems (HCI, HMI, HRI, HUCI)
- iSpace research
- Interactive systems engineering
- Media informatics
- Multimodal interaction
- Real and virtual avatars, Virtual life
- Sensory substitution & sensorimotor extension
- Social networks
- 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).

Just like last year, publications of the 4th IEEE International Conference on Cognitive Infocommunications (CogInfoCom 2013) will be uploaded to the IEEE Xplore database.

Authors' Schedule

Full paper submission: **September 15, 2013 /** Notification: **October 28, 2013 /** Final submission: **November 11, 2013**

Journal Publications

Authors of selected best papers of the conference shall be invited to publish their previously unpublished research results in special issues of *international journals*.

Track and Session Organizers

Those who would like to propose a track or session (a set of oral or DEMO presentations) in order to introduce the new scientific results of their fields or large scale international projects are warmly welcome. Please kindly note that the minimum number of sessions is 3 per track and 1 session is of 4 publications.

Track I – **CogInfoCom aided engineering** (Wei Deng Solvang, NUC)
Track II – **Vision capabilities of infocommunications networks** (Zsolt Jankó, MTA SZTAKI)
Track III – **Cognitive capabilities of social networks** (Gábor Vattay, ELTE)
Track IV – **Multimodal Communicative Signals: Behavioural and Algorithimic Issues - LangTERRA project** (Anna Esposito, Maria Koutsombogera, Harris Papageorgiou , Klara Vicsi)

Workshop ***Cognitive Infocommunication for the Future Interenet*** (Gyula Sallai and György Terdik)
including the following:
Track V – **Cognitive Aspects in the Future Internet Research, Services and Technology (FIRST project)** (János Sztrikt, György Terdik)
Track VI – **Chapters of the Future Internet Science and Engineering** (???????????)

4th IEEE Conference on Cognitive Infocommunications

Call for Demonstration

~ A venue for science, future professionals and industry representatives to meet ~

The 4th IEEE CogInfoCom 2013 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:

- 3D visualization and interaction
- Affective computing
- Augmented cognition (AugCog)
- Body area network
- Brain-computer interface
- Cognitive control
- Cognitive informatics and media
- Cognitive linguistics
- Cognitive robotics
- Cognitive science
- Ethology-inspired engineering
- Etho-robotics
- Future internet
- Human-computer and Human-robot interaction, interaction capabilities of CogInfoCom systems
- iSpace research
- Interactive systems engineering
- Media Informatics
- Multimodal interaction
- Real and virtual avatars
- Sensory substitution & sensorimotor extension
- Social networks
- Teleoperation
- Vehicle informatics
- Virtual Reality Technologies and Scientific Visualization

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 COGINFOCOM2013 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 "[COGINFOCOM2013-DEMO]" in the subject of your emails and send them to *ieee.coginfocom2013@sztaki.mta.hu*.

Important Dates

Demo Submission:	15 October, 2013
Notification:	28 October, 2013
Final submission:	11 November, 2013
Conference:	**2-5th December, 2013 in Budapest, Hungary**

Submissions

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

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Note:

Every demo paper accepted for publication in the Proceedings of 4th IEEE Intl' CogInfoCom 2013 MUST be presented during the conference.