Call for Contributions

Submission:
1. Inform the Chair: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2018+Special
Please select Track Preference as **ComIoTE**

Special track

ComIoTE: Communication Solutions for IoT and E-health Applications and Systems

Chair
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along with

ICNS 2018, The Fourteenth International Conference on Networking and Services
May 20, 2018 to May 24, 2018 - Nice, France
http://www.iaria.org/conferences2018/ICNS18.html

The key of the success of the complex networks is the evolution of existing wireless and microelectronics technologies. These networks being more complex are formed by a multitude of intelligent devices and equipments, often designated by a more generic word which is the "object". This word designates both simple devices (such as sensors, cameras, watches, etc.), but also more complex and intelligent equipment (such as robots, vehicles, etc.). The interconnection of these objects with advanced processing capabilities increases their exploitation in many fields such as e-health, connected cars, connected homes, the Industrial Internet, etc.

There are many challenges to which we are facing in order to better satisfy the requests and the requirements of applications and their services. One challenge is the adaptation of existing communication protocols to the physical and logical characteristics of both complex networks and their components. Most of the constraints to be considered in this adaptation process are specific to the wireless environment used. All these constraints affect the reliability of data, their acquisition and transmission in real time. These tasks are usually associated with three important levels of communication access to the medium, routing and transport and this through the various mechanisms specific to each one of these levels.

This special track focuses on three main research areas for the e-health applications exploiting the new generation of networks mainly IoT. The first area leads to the purpose of scalable communications architectures and protocols for e-health applications using IoT. The second area deals to the designing and the development of self-reconfiguration and self-reorganization algorithms for these networks and applications. Finally, the third area concerns the purpose of intelligent and secure algorithms for IoT and e-health applications and the exploitation of new optimization techniques.

Prospective authors are invited to submit original papers on topics including, but not limited to:

- Communication algorithms and protocols oriented IoT and e-health applications

- Performance analysis and optimization of different communications solutions for IoT and e-health applications

- Distributed and embedded communication architectures for IoT and e-health applications

- Channel allocation algorithms, access control and detection losses techniques for IoT and e-health data

- Bio-inspired and based datamining approaches for efficient communications with IoT and e-health environments

- Transport and routing techniques supporting QoS and QoE for e-health applications

- Energy saving and power control protocols for IoT and e-health applications

- Low-power physique layer solutions for IoT and e-health environments

- Efficient communications oriented medical and e-health services

- Intelligent management of IoT networks and systems resources

- Exploitation of optimization and mathematical approaches for efficient communication for IoT and e-health applications

- Communications between detecting, monitoring and supervising systems for IoT and e-health envrionments

- Experimental results and futurs standards

Important Datelines

- Inform the Chairs: As soon as you decided to contribute
- Submission: ~~February 7, 2018~~ March 28, 2018
- Notification: ~~March 7, 2018~~ April 5, 2018
- Registration: ~~March 21, 2018~~ April 10, 2018
- Camera ready: ~~April 2, 2018~~ April 20, 2018

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission
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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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