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SPECIAL ISSUE ON

Potential Sensors for the Forthcoming 6G/IoE
Electronics and Physical Communication Aspects

Overview:

The new 6G and Internet of Everything (6G/IoE) infrastructure is expected to transform the world of connected sensors and reshape industries. Such a revolution would of course require research and development for the co-existence and device inter-operability of sensors' physics/electronics with 6G networks, novel sensor prototypes, deployment, placement, control and management strategies, smart and intelligent network on chip (NoC) solutions, energy-efficient sensing materials with the support of new infrastructures, development of new energy harvesting methods in promising electronics sensors, inter/intra communication protocols and standards, integration of sensors with the existing Cloud-based infrastructures using 6G, and physical circuits reliability/privacy and security issues for sensors employing 6G. Such research would also require case studies and physical deployment of sensors for the emerging IoE paradigm in 6G networks, studies using test beds, experimental results, as well as various performance evaluation and modelling approaches. Understanding the capabilities associated with these potential sensors is essential for practical implementation as they help modernize and streamline the motivating electronics and physical communication techniques in the near future. Consequently, researchers, scientists, and engineers face emerging challenges in designing sensor-based systems that can efficiently be integrated with the 6G/IoE communication paradigms.

Topics

Topics of interest include, but are not limited to, the following scope:

<ul style="list-style-type: none">- Innovations in sensors for 6G/IoE- Sensory case studies and real-world deployments- Network on Chip (NoC) for sensors in 6G/IoE- Performance assessment- Experimental results, or test beds- Emerging sensors in 6G/IoE- Sensors with unlicensed spectrum- Sensory circuit design in 6G systems- Localization techniques	<ul style="list-style-type: none">- Communication protocols- Resource management- Energy awareness in 6G- Electronics and physics of sensors in 6G/IoE- Privacy and security issues for sensors in 6G/IoE- Software defined solutions for sensors in 6G/IoE- Cooperative sensing techniques
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Important Dates

- **Manuscript submission deadline:** 15th April 2020
- Notification of acceptance: 15th July 2020
- Submission of final revised paper: October 1st, 2020
- Publication of special issue (tentative): Jan. 1st, 2021

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>.

A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es) fadi.alturjman@antalya.edu.tr and alturjman@outlook.com

Guest Editors:

Lead GE Fadi Al-Turjman, Ph.D.

Professor
Computer Engineering Dept.
Antalya Bilim University,
Antalya, Turkey
Email: fadi.alturjman@antalya.edu.tr

GE1 Tariq Umer, Ph.D.

Department of Computer Science,
COMSATS University Islamabad, Wah
Campus, Pakistan
t_umer@yahoo.com

GE2 Joel Rodrigues, Ph.D.

National Institute of Telecommunications
(Inatel), Brazil;
Instituto de Telecomunicações, Portugal
Phone: +55 (35) 3471-9281
joeljr@ieee.org

GE3 Ahmed E. Kamal, IEEE Fellow

Department of Electrical & Computer
Engineering
Iowa State University, USA.
kamal@iastate.edu



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