15th International Symposium on Wireless Communication Systems

ISWCS'18

28–31 August 2018   Lisbon, Portugal

General Chairs:
Francisco Cercas, IT and ISCTE-IUL, Portugal
Francisco Monteiro, IT and ISCTE-IUL, Portugal
Rodolfo Oliveira, IT and Nova U. Lisbon, Portugal

General Co-Chairs:
Rodrigo de Lamare, U. York, UK, and PUC-Rio, Brazil
Roberto Verdone, U. Bologna, Italy

Steering Committee:
Yuming Jiang, NTNU, Norway
Boon Sain Yeo, SensiMesh, Singapore
Carlos Faouzi Bader, Supélec, France
Rodrigo C. de Lamare, U. York, UK, and PUC-Rio, Brazil
Didier Le Ruyet, Le CNAM, France

Technical Program Chair:
George K. Karagiannidis, Aristotle U. Thessaloniki, Greece

Technical Program Co-Chairs:
James Gross, KTH Stockholm, Sweden
Rui Dinis, IT and Nova U. Lisbon, Portugal
Eduard Jorswieck, TU Dresden, Germany

Special Sessions Chair:
Luca Sanguinetti, U. Pisa, Italy

Special Sessions Co-Chair:
Ioannis Krikidis, U. Cyprus, Cyprus

Tutorials Chair:
Himal A. Suraweera, U. Peradeniya, Sri Lanka

Publication Chair:
Luís Bernardo, IT and Nova U. Lisbon, Portugal

Website and Publicity:
Luís Irio, IT and Nova U. Lisbon, Portugal

Liaison Chairs:
North America: Xiaoli Ma, Georgia Tech, USA
South America: Bartolomeu Uchôa-Filho, UFSC, Brazil

_____

Important Dates

Special Sessions and Workshops proposals:	Mar. 02, 2018
Full paper submission:	**Apr. 06, 2018**
Acceptance notification:	May 25, 2018
Camera-ready paper:	June 29, 2018
Author registration:	June 29, 2018
Conference:	Aug. 28 – 31, 2018

Call for Papers

The aim of this symposium is to provide a forum for researchers and technologists to present new ideas and contributions in the form of technical papers, panel discussions, as well as real-world evaluations in the field of wireless communications, signal processing and networking.

We call for highly-innovative and state-of-the-art contributions in the form of original technical papers. Demos or products to be shown at the accompanying exhibition are also sought.

Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore as well as other Abstracting and Indexing databases.

_____

Track 1: **Signal processing for wireless communications, Communication theory, Information theory, Antennas and propagation**

Modulation and coding, Detection and estimation, 5G Wireless Systems, Waveforms, Millimeter waves communications, MIMO, Massive MIMO, Space-time coding, Precoding, Source coding for wireless communications, Compressed sensing, Network coding and Physical layer network coding, Machine Learning for communications, Stochastic geometry modelling, Cooperative networks and relaying, In-band full-duplex radio, Interference cancellation, Interference alignment, NOMA, Single- and multi-carrier systems, Spread spectrum and ultra-wideband, Wireless access techniques, Software-defined radio, Cross-layer air-interface design, Mobility management, VLSI architectures for radios, Physical layer security, Radio resource management, Field tests and measurements, Energy harvesting, Synchronization, Molecular communications, Underwater communications, Satellite communications, Visible light and wireless optical communications, Quantum communications for wireless applications.

Track 2: **Networking, protocols, cognitive radio, wireless sensor networks, services and applications**

MAC layer protocols, Cognitive radio, Wireless networking, Internet-of-things and machine-to-machine communications, Ad-hoc, mesh and sensor networks, Traffic control, Bio-inspired communications and networks, Self-organized wireless networks, Wireless network architectures and technologies, Smart grid communications, Connected Vehicles, Green communications, Localization systems, Wireless security and privacy, Quality of Service, Innovative services and applications, Disaster area communications.

Submission Guidelines

Only full papers are considered. The length should not be longer than five A4 pages (in IEEE two-column format, 10pt, according to the IEEE template). Papers must be submitted via EDAS.