7TH INTERNATIONAL CONFERENCE ON SMART AND SUSTAINABLE TECHNOLOGIES

Bol and Split, Croatia (hybrid)
5-8, July 2022

Special session within the International Symposium on Advances in RFID Technology and Electromagnetics for IoT

Small antennas and RF sensors for IoT applications

Organizers:

Luciano Mescia (Politecnico di Bari, Bari, Italy)

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Call for Papers:

Wireless applications concerning multimedia devices, Internet of Things (IoT), sensor networks and intelligent transportation systems, require antenna systems and RF sensors that are capable of operating in different complex environments. The main challenges of communication systems for IoT and smart industrial applications include the need for robust connectivity, the large number of frequency bands to be covered, efficient, cost-effective, scalable, and reliable antenna systems. In such a framework, radiating structures and RF sensors represent critical sub-systems of smart devices. Antennas and sensors for this class of devices must be compact, lightweight, inexpensive, and deliver reasonable performance in ever-shrinking footprints under extreme interference conditions. Multifunction antennas with adaptive properties, as well as efficient wireless sensors for healthcare, automotive, surveillance systems, threat detection, and environmental, industrial monitoring, are key to enable next-generation IoT applications.

The main focus of this Special Session is on the research challenges and technological advancements in design, modelling, characterization and integration of antennas and RF sensors for Internet of Things, wireless sensor networks, 5G and 6G communications.

Potential topics include but are not limited to:

- Ultrawideband antennas
- MIMO antennas
- Lens Antennas
- Textile antennas
- On-chip and in-package antennas
- Antennas for 5G/6G communication systems
- Conformal antennas for wireless power transfer systems
- Radio-frequency identification (RFID) antennas
- 3D printed antennas
- Antenna measurements for 5G and future systems
- Smart sensors for Industry 4.0
- Wearable antennas and sensors
- Biosensors
- Textile-based sensors
- Radar sensors

Important Dates
Paper Submission: **March 10, 2022**
Notification of acceptance: **May 1, 2022**
Camera Ready Papers due: **May 20, 2022**
Conference: **July 5-8, 2022**

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RFID symposium track

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