# **Special Issue**

## Smart Antennas for Future Communications

### Message from the Guest Editors

In the near future, 5G networks will be widely deployed, more and bigger satellite constellations will be launched, and the foundations for 6G will be laid, with the purpose of universal connectivity. IoT promises to link 100 billion devices to enable effective cooperation between the various actors. It can easily be understood that the information obtained through sensors can be strongly complemented by data provided by the objects being tracked. In this world, which is nearby, smart or adaptive antennas have a fundamental role. The smart antenna, as a transmitter, will have the fundamental characteristic of directing the wave to the receiving target, reducing the electromagnetic pollution generated to a minimum. As a receiver, however, it has to be focused on the wave heading towards it and put out the remaining spectral environment. Spatial, temporal and frequency diversion can, among others, compete to obtain adequate results. To achieve these goals, we will have to leverage smart antennas. Keywords

- smart antennas
- adaptive antennas
- beamforming
- MIMO
- 5G
- 6G
- new space communications

### Guest Editors

#### Dr. Joao Nuno Matos

Instituto de Telecomunicações, Universidade de Aveiro, Aveiro, Portugal

#### Dr. Tiago Varum

Instituto de Telecomunicações, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

### Deadline for manuscript submissions

closed (30 August 2023)



## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



### mdpi.com/si/115129

Sensors Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 sensors@mdpi.com

### mdpi.com/journal/

sensors





## Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



sensors



## About the Journal

### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological

developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

#### Editor-in-Chief

#### Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

### **Author Benefits**

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)