Special Issue

Antenna and Microwave Sensors

Message from the Guest Editor

Modern telecommunication and monitoring systems such as pollution detection, environmental sensor radio links, and radars require antennas and sensors able to operate in different complex environments and acquire different environmental physical parameters. The design of a suitable radiating system and specialized microwave sensors could play a key role in the design of monitoring systems. The antenna system and sensors for these devices must be light, cheap, and able to maintain high levels of device performance in any environment. In such a framework, the use of microwave antennas with fully adaptive properties is mandatory for dramatically improving the performances of monitoring systems. The objective of this Special Issue is to provide an overview of the current research on microwave antennas and sensors, highlight the latest developments and innovations, and identify new challenges and opportunities for applications.

Keywords: Phased arrays; Full adaptive arrays; Switched beam antenna; Reconfigurable antennas; MEMS-reconfigurable antennas; Multibeam antennas; Multifrequency antennas; Long-range RFID; Chipless RFID; Chipless sensors; Radar sensors

Guest Editor

Dr. Massimo Donelli

Department of Civil, Environmental and Mechanical Engineering (DICAM), University of Trento, 38123 Trento, Italy

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

mdpi.com/journal/sensors

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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

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