Special Issue

Electromagnetic Sensing and Nondestructive Evaluation

Message from the Guest Editors

The rapid evolution of sensor technology, advanced manufacturing methodologies, computational resources, and data science has enabled advances in electromagnetic sensing and nondestructive evaluation techniques. These techniques have relevance for a broad range of industries, such as aerospace, civil, environmental, biomedical, and advanced manufacturing. Despite these advances in technology, there remains a crucial need for the maturation of characterization techniques that allow for the rapid inspection of low-contrast objects with fine resolution at large standoff distances, as well as over large physical areas. This Special Issue aims to provide insights into recent developments in electromagnetic sensing and characterization for frequencies ranging from DC to sub-THz. Examples include but are not limited to:

- compact, low-cost, and/or wireless sensors;
- antennas and metamaterial-based designs for enhanced and/or sub-wavelength resolution;
- in-situ and/or real-time diagnostics;
- computationally inexpensive imaging, reconstruction methods;
- novel machine learning and/or signal processing techniques.

Guest Editors

Dr. Saptarshi Mukherjee
Lawrence Livermore National Laboratory, Livermore, CA 94550, USA

Dr. Tammy Chang
Lockheed Martin Space, Sunnyvale, CA 94089, USA

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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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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

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