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Electromagnetic Sensing and Nondestructive Evaluation

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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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.



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Special Issue



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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

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.

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
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