

Special Issue

Electromagnetic Sensors and Their Applications

Message from the Guest Editors

Electromagnetic (EM) sensors are integral to modern sensing technologies, offering continuous, non-contact, and real-time detection across diverse applications. By leveraging electromagnetic fields, these sensors enable the precise measurement of physical properties such as permittivity, permeability, conductivity, and impedance. Their versatility makes them indispensable in fields such as industrial automation, biomedical diagnostics, structural health monitoring, and geophysical exploration. This Special Issue aims to showcase cutting-edge research on the design, modeling, fabrication, and application of EM. We welcome contributions on novel EM sensor designs, emerging metamaterials, AI-driven enhancements for EM sensors, and innovative applications for EM sensing across diverse fields. By bringing together experts from academia and industry, this issue seeks to advance EM sensing technologies and foster interdisciplinary applications.

Guest Editors

Dr. Shiquan Wang

School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639956, Singapore

Prof. Dr. Kwok L. Chung

School of Intelligent Manufacturing and Electrical Engineering, Guangzhou Institute of Science and Technology, Guangzhou 510091, China

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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