

Special Issue

Advanced Magnetic Field-Sensing Technologies: Design and Application

Message from the Guest Editor

The rapid evolution of magnetic field sensing technologies has revolutionized diverse fields, including biomedical diagnostics, industrial automation, environmental monitoring, and space exploration. This special issue, “Advanced Magnetic Field Sensing Technologies: Design and Application”, aims to showcase cutting-edge innovations in sensor design, signal processing algorithms, and interdisciplinary applications. With the growing demand for ultra-sensitive, miniaturized, and energy-efficient magnetic sensors, this issue will explore novel materials (e.g., quantum materials, magneto-resistive alloys), advanced fabrication techniques, and AI-driven calibration methods. Contributions addressing challenges such as environmental noise suppression, multi-scale field mapping, and sensor fusion for complex environments are particularly encouraged. By bridging theoretical advancements with real-world implementations, this collection seeks to propel the next generation of magnetic sensing systems for scientific discovery and industrial transformation.

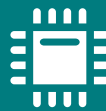
Guest Editor

Dr. Ke Yang

School of Marine Science and Technology, Northwestern Polytechnical University, Xi'an, China

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

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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
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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