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Novel Sensing Technologies for Environmental Monitoring and Detection

Guest Editor:

Dr. George Hloupis

Department of Surveying and
Geoinformatics Engineering,
University of West Attica, 12243
Athens, Greece

Deadline for manuscript
submissions:

25 November 2025

Message from the Guest Editor

Covering a wide range of sensing technologies, this Special Issue publishes interdisciplinary articles presenting new technologies, methods, empirical findings, innovative paradigms, future trends, case studies and review articles. Acknowledging the synergies between various technologies, this Special Issue emphasizes environmental monitoring. In situ sensor networks, low-cost sensor solutions, unmanned aerial and underwater sensing technologies and energy-optimized sensor developments are the main components of the submitted contributions.

Submissions are encouraged, but are not limited to the following general areas:

- Sensors used to increase the resilience of structures against natural disasters;
- Low-cost visual sensing;
- Air quality and sound pollution sensing;
- Infrastructure for urban sensor networks;
- Intelligent sensors;
- Energy harvesting and efficiency for sensor solutions;
- Real-time analytics of heterogeneous spatiotemporal sensor data;
- Sensing for well-being applications;
- Ethical issues, security, and privacy in city sensor systems and applications.



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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, Grosspeteranlage 5
4052 Basel, Switzerland

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