

Special Issue

Advanced Sensors in MEMS

Message from the Guest Editors

This Special Issue aims to encompass high-quality research contributions focusing on the advances in MEMS sensors. Topics to be covered include (but are not limited to):

- Suitable mechanisms for enhanced sensing in microsystems: weakly coupled resonators, stochastic resonance, parametric amplification, operation on the stability border, etc.;
- Modern techniques for interfacing transducers to electronic systems for advanced signal processing and data fusion (sigma-delta, sliding mode control, etc.), including hybrid integration techniques between MEMS devices and electronic subsystems;
- Modern trends, e.g., polymer CMUT transducer arrays for ultrasound imaging (from Si to alternative technologies);
- Sensor arrays and sensor networks, including data fusion aspects;
- The stimulating coupling between clusters of MEMS sensors and present advances in intelligent signal processing, including machine learning aspects integrated with high-performance sensing.

Guest Editors

Prof. Dr. Edmond Cretu

Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, BC V6T 1Z4, Canada

Dr. Chang Ge

Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, BC V6T 1Z4, Canada

Deadline for manuscript submissions

closed (20 March 2024)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/121585

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

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About the Journal

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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