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## Advanced Sensors in MEMS

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submissions:

**closed (20 March 2024)**

### Message from the Guest Editors

Dear Colleagues,

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.

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*Guest Editors*



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**Special** Issue



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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.

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