Special Issue

Advanced MEMS and Resonator Technologies: Design, Control, and Real-World Validation

Message from the Guest Editor

Microelectromechanical systems (MEMS) and resonator technologies play an important role in modern sensing, timing, and signal processing applications across a wide range of sectors. Their miniaturization, high sensitivity, and integration potential continue to drive interdisciplinary research at the intersection of materials science, device physics, circuit design, and control engineering. This Special Issue aims to highlight the recent advances in the design, modeling, fabrication, control, and validation of MEMS- and resonator-based devices. We welcome both fundamental research and application-oriented studies that advance the performance, robustness, and scalability of these technologies. Research areas may include (but not limited to) the following:

- MEMS and resonator design and optimization
- Acoustic, piezoelectric, electromagnetic, or optical resonator structures
- MEMS-based sensors and actuators for physical, chemical, or biological signals
- Multiphysics modeling, control strategies, and dynamic system simulations
- Microfabrication, packaging, and system integration techniques

I look forward to receiving your contributions.

Guest Editor

Dr. Sen Bing

Electrical and Computer Engineering, Southern Methodist University, Dallas, TX 75205, USA

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

mdpi.com/journal/electronics

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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