

Special Issue

Advances in MEMS/NEMS: Theory, Devices, and Intelligent Applications

Message from the Guest Editor

This special issue aims at the significant advancements and ongoing innovation in Micro-Electro-Mechanical Systems (MEMS) and Nano-Electro-Mechanical Systems (NEMS), which are pivotal for progress across diverse sectors such as healthcare, automotive, telecommunications, and consumer electronics. We welcome original research articles and reviews that focus on deepening our fundamental understanding of this domain, developing physical functionalities, or demonstrating system-level integration.

Foundational Mechanics and Modeling: dynamics, stability, control, and advanced multi-physics modeling of MEMS/NEMS devices.

Materials, Reliability, and Packaging: Advances in reliability, packaging solutions, thermal management, long-term stability, and devices utilizing new or emerging materials.

Emerging Device Technologies: RF MEMS, MOEMS, MEMS/NEMS resonators, piezoelectric MEMS, and flexible, stretchable, and wearable devices.

Bio-Integration and Interfaces: BioMEMS and specialized MEMS for applications in brain-computer interfaces (BCI).

Intelligent and Sensing Systems: AI-enabled "smart" MEMS/NEMS and their diverse sensing applications.

Guest Editor

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About the Journal

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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