# **Special Issue**

### Recent Advances in N/MEMS Nonlinear Dynamics

### Message from the Guest Editors

Since the rise of Integrated Circuit (IC) technology in 1990, nano/microelectromechanical systems (N/MEMS) have increasingly attracted considerable interest due to their small size and low power consumption. Due to the effects of micro size and multi-energy coupling. N/MEMS systems can be easily driven into nonlinear regimes, which leads to rich nonlinear phenomena such as internal resonance, super/sub-harmonic synchronization, frequency locking, dynamic pull-in, frequency comb response, etc. Recent research has found that some of the nonlinear effects can be utilized to improve the dynamic performance of N/MEMS systems, which provides novel ideas for the design of high-performance sensing, actuating, or memory devices. Thus, this Special Issue seeks to showcase research papers, communications, and review articles that focus on recent advances in the field of the nonlinear dynamics of N/MEMS systems.

### **Guest Editors**

#### Prof. Dr. Rong-hua Huan

Department of Mechanics, Key Laboratory of Soft Machines and Smart Devices of Zhejiang Province, Zhejiang University, Hangzhou 310027, China

#### Dr. Xuefeng Wang

School of Mechanics, Civil Engineering and Architecture, Northwestern Polytechnical University, Xi'an 710129, China

#### Deadline for manuscript submissions

closed (31 December 2023)



## **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



mdpi.com/si/158426

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

mdpi.com/journal/ micromachines





## **Micromachines**

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 6.0 Indexed in PubMed



MDPI

### About the Journal

### Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

 Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

### Author Benefits

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

#### Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).