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Micro/Nano Electromechanical Sensors and Actuators

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Deadline for manuscript submissions:
closed (30 November 2023)

Message from the Guest Editors

We are planning a Special Issue that will include high-quality papers presented during the 13th Japan–China–Korea Joint Conference on MEMS/NEMS (JCK MEMS/NEMS 2022), sponsored by the MDPI open access journal *Actuators*.

The JCK MEMS/NEMS Conference is organized to provide an annual East Asian forum for presenting recent progress in Green & Life Innovation based on MEMS/NEMS technology, with special emphasis placed on international collaboration toward solving environmental and social issues among East Asian economies. In this Special Issue, selected papers from JCK MEMS/NEMS 2022 will be published with the aim of highlighting the latest achievements in the research on micro-/nanosensors, actuators, and related technologies. Both original research papers (extended from conference proceedings) and review papers that focus on the state-of-the-art in one of the following topics and covered by the journal's aims and scope will be considered for publication.

- Micro/nano fabrication, including 3D printing
- Micro/nano electronics
- Micro/nano sensors and actuators
- Micro/nano systems
- Networked microsystems and IoT technologies
- .....

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Special Issue

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Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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