



electronics



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Advances in Micro Electro Mechanical Systems: From MEMS to NEMS Devices

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Message from the Guest Editors

In the area of MEMS, two main streamlines of research can be observed. The first streamline is theoretically oriented and devoted to the analysis and synthesis of multiphysics models of systems such as coupled thermal–elastic systems, electrostatic–elastic systems, magnetically actuated systems, and microfluidic systems. In contrast, the second is more focused on various application areas, such as the design and manufacturing of MEMS for biomedical systems with an emphasis on miniaturized bio-sensors and microdevices for tissue engineering. Specifically, in the area of actuators, there are many excitation techniques; the ones which are commonly used can be classified into three categories, according to the relevant physical principle:

Deadline for manuscript
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Message from the Editor-in-Chief

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