Special Issue

Micro/Nano-Integrated Systems: A Paradigm to Evolve

Message from the Guest Editors

MEMS (microelectromechanical systems) and NEMS (nanoelectromechanical systems) are some of the most famous interdisciplinary research fields, requiring knowledge about a variety of research areas such as biotechnologies and nanotechnologies, as well as micro/nano-fabrication techniques. The aim of this Special Issue is to gather original contributions or review papers from researchers that are actively engaged in developing new ideas and providing critical diagnostic devices which combine nanometer-scale devices and materials, such as metal and carbon nanoparticles, with molecular-recognition systems and optical, mechanical, or electronic transduction platforms to produce highly sensitive, high-throughput, and high temporal, spatial, and spectral resolution biochemical sensors. Particularly focus on bioelectronics, biophotonics and bio-MEMS, integrated circuit design, system-on-chip design, image sensor design, bioelectronics, and micro/nano-fabrication. **Keywords**

- biosensors
- lab-on-a-chip
- bio-MEMS
- CMOS
- nanoparticles
- micromechanical sensors
- biochemical sensors
- micro/nano-fabrication
- multi-electrode array

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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