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MEMS, Flexible and Wearable Electronic Devices: Progress in Design, Optimization, Fabrication, Materials Integration, Packaging and Applications

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Message from the Guest Editor

Research in MEMS and flexible and wearable electronic devices entails a holistic perspective at the crossroads of device design, materials, fabrication, integration, packaging, and application. Oftentimes, successful device demonstrations, be they for micromachined sensors/actuators, RF-MEMS, Bio-MEMS, flexible and/or wearable devices, require multiple iterations, cycling between design and fabrication to testing and characterization. Eventually, an optimized “system-level” integrated solution is reached.

This Special Issue focuses on the progress in micro/nano-electro-mechanical-systems (MEMS/NEMS), micromachined sensors and actuators, and flexible and wearable electronic devices, with a particular emphasis on “system-level integration”, including new materials, the development of novel micro/nanofabrication approaches, the investigation of novel sensing modalities to detect and quantify physical, chemical or biological measurements, design and process optimization, packaging and/or assembly and heterogenous integration, to enable new applications and “More than Moore” devices.

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Message from the Editor-in-Chief

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