Special Issue

Nanomechanical Sensors

Message from the Guest Editor

Nanomechanical devices have attracted a significant amount of interest in the research community. Scaling mechanical components down to the nanoscale has several advantages—for example, low mass, high resonance frequency, superior sensitivity, and low power consumption, which opens the doors for several applications, such as chemical, biological, gas sensing, high frequency resonators, and nanomachines. The aim of this Special Issue is to cover state-of-the-art progress in all aspects of nanomechanical devices. Research articles, short letters, and review papers will be considered. Contributions from both academia and industry are encouraged. Topics of interest include but are not limited to the following:

- Nanomaterials, e.g., graphene, carbon nanotubes, nanocomposites;
- Modeling and simulation of nanoscale phenomena;
- Nanomechanical sensors and actuators;
- NEMS-based resonators and timing solutions;
- Nanofabrication methods;
- Nanorobots;
- Nanophotonics.

Prof. Dr. Mourad N. El-Gamal
Dr. Mohannad Y. Elsayed

Guest Editor

Prof. Dr. Stephane Evoy
Department of Electrical and Computer Engineering, University of Alberta, Edmonton, AB T6G 2V4, Canada

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

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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