

Special Issue

Portable Sensor Systems for Microbial Application

Message from the Guest Editor

Recently, much research has been carried out to propose novel techniques for microbial analysis that can allow low-cost and in situ measurements outside a laboratory environment. One important characteristic of the proposed techniques is potential implementation in the form of an embedded portable electronic system, based on a microcontroller or FPGA, to allow microbial analysis outside a laboratory to also be performed by nonskilled personnel. Moreover, the recent wide diffusion of smartphones with a high processing capability that integrate wireless communication systems and a rich sensor set offers an optimal platform to design low-cost mobile sensing systems.

The editors welcome the submission of high-quality research papers not previously published in other journals as well as review articles discussing recent advancements in the development of portable sensor systems for microbial analysis and innovative techniques for microbial analysis that can be easily implemented in the form of an electronic embedded system. Keywords:

- Sensor
- Bacteria
- Microbial analysis
- Portable system
- Biosensor
- Lab-on-a-chip

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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.

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