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MEMS Devices for Biomedical Applications

Guest Editors:

Prof. Dr. Zoltán Fekete

Faculty of Information
Technology & Bionics, Pázmány
Péter Catholic University, 1085
Budapest, Hungary

**Prof. Dr. Wamadeva
Balachandran**

Centre for Electronic Systems
Research, Electronic and
Computer Engineering, CEDPS,
Brunel University London,
Kingston Lane, Uxbridge UB8
3PH, UK

Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editors

Dear Colleagues,

Biomedical MEMS are key components of state-of-the-art diagnostic approaches that are featured by high sensitivity, low response time and low variability. Novel concepts of today's BioMEMS rely on the exploitation of sophisticated micro- and nanofabrication processes using smart, responsive or functional materials. Expectations from the global community focus on autonomously working, low-cost solutions accompanied by integrated features to precisely identify or monitor biomolecules, pathogens and other chemical substances. This Special Issue aims to provide opportunity to address aspects of design, materials, technology, and applications of MEMS based sensors and actuators for biomedical research and industry. Contributions may include novel operation principles, components and architecture of lab-on-a-chip, organ-on-a-chip and microTAS systems. Both review papers and original research articles are welcome.

Prof. Dr. Zoltán Fekete

Prof. Dr. Wamadeva Balachandran

Guest Editors



mdpi.com/si/79842

Special Issue



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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

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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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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