# **Special Issue**

### Biologically Inspired Sensor and Actuator (BioSA) Platforms

### Message from the Guest Editor

The basic understanding of in-vivo sensing/actuating mechanisms inspires novel ideas to addressing challenges in various life science applications including point-of-care disease diagnostics (PoCD). environmental monitoring, automation of biological and chemical laboratories, pharmacological and food industries and etc. This special issue shall consider the publication of research or review papers papers that address the challenge of developing Biologically Inspired Sensor and Actuator (BioSA) systems such as nanopore DNA sequencers or micr-robots respectively. BioSA is a multidisciplinary research approach to mimick the biological micro-environments using standard Integrated Microelectronic Circuitsuch as complementary metal oxide semiconductors (CMOS). Micro-electromechanical System (MEMS) and Microfluidic techniques. This Special Issue addressing the design, implementation, modeling, characterization, validation, and/or optimization of BioSA platforms consisiting of CMOS, MEMS or Microfluidic devices for bioengineering or biomedical engineering applications such as drug testing or other fundamental biological studies.

### Guest Editor

Prof. Dr. Ebrahim Ghafar-Zadeh BioSA Laboratory, Department of Electrical Engineering & Computer Science, York University, Toronto, ON, Canada

### Deadline for manuscript submissions

closed (31 March 2021)



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

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### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

 Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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