



an Open Access Journal by MDPI

# **Intelligent Approaches in Biosensing**

Guest Editors:

## Dr. Tatiana M. Zimina

Department of Micro- and Nanoelectronics, Saint Petersburg Electrotechnical University "LETI", 197022 Saint Petersburg, Russia

#### Dr. Dmitrii Kaplun

Department of Automation and Control Processes, Saint Petersburg Electrotechnical University "LETI", 197022 Saint Petersburg, Russia

Deadline for manuscript submissions: closed (31 January 2024)

#### **Message from the Guest Editors**

Currently, biosensors are becoming an increasingly multidisciplinary field of science. Modern biosensor systems should provide high sensitivity and selectivity, a high detection rate, small sample volume, compact size, and low cost. Increasing the efficiency of their performance requires cooperative solutions for specialists in the field of physics, chemistry, engineering, information technology, medicine, etc. Information technologies such as machine learning, intelligent data processing, embedded and mobile computing can significantly improve the quality of identification, characterization, processing of samples, as well as to carry out an intelligent analysis of the results. Automation of analysis based on integrated microfluidic biosensor systems can provide extremely high-quality screening in healthcare, ecology, chemical and food industries



mdpi.com/si/163856







an Open Access Journal by MDPI

#### **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

#### Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

**Journal Rank:** JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

### **Contact Us**

*Micromachines* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/micromachines micromachines@mdpi.com X@micromach\_mdpi