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AI-Enabled Biosensor Technologies for Boosting Medical Applications

Guest Editors:

Dr. Carlos G. Juan

Institute of Bioengineering,
Miguel Hernández University of
Elche, 03202 Elche, Spain

Dr. José María Vicente-Samper

Department of Civil Engineering,
University of Alicante, San
Vicente del Raspeig, Spain

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Message from the Guest Editors

Dear Colleagues,

Biosensing technologies find a myriad of applications in many aspects of modern society. Among all these, its quintessential use in medical, biological and biomedical contexts has been actively investigated and exploited during the last decades. The range of available biosensor techniques is wide, from biochemical sensors to reagent, ultrasound, electronic, optic, optoelectronic, or electromagnetic sensors, and show promising potential for unprecedented advancements. The development of novel biosensing technologies for future medical applications is therefore considerably alluring.

In this multidisciplinary topical collection, we seek to compile insightful contributions that explore the combinations and possible synergies of these two disciplines—biosensors and AI processing techniques—with appealing future prospects for the biomedical realm. We anticipate novel ideas, innovative devices, and cutting-edge approaches that will expand the current boundaries of scientific knowledge. Prospective researchers are encouraged to submit their original works and comprehensive review articles, contributing to the advancement of this thrilling research field.



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Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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