

Special Issue

Recent Advances in Biomedical Engineering and Biomaterials

Message from the Guest Editors

Biomedical engineering covers many disciplines: computer science, materials science, electronics, biotechnology, mechanical engineering. The combination of all these disciplines serves to support and develop medicine. This applies to the design and construction of medical equipment, software, implementation of telemedicine, construction of artificial organs and rehabilitation devices, and developing and implementing the production of biocompatible materials. Biomaterials constitute a special area of biomedical engineering. Research in this field provides opportunities for progress in regenerative medicine and tissue engineering. This Special Issue will include modern applications of biomedical engineering in a wide range of medical specialties. The proposed topics include but are not limited to:

- Processing and analysis of biomedical signals and images;
- Design and implementation of electronic medical devices and systems;
- Applications of biomaterials, including implants, in medicine and pharmacology;
- Simulation and modelling of organs, tissues and biological systems;
- Development of deep learning architectures in the analysis of biomedical data.

Guest Editors

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Dr. Artur Klepaczko
Dr. Dorota Bociaga

Deadline for manuscript submissions

closed (20 April 2024)



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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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