Special Issue

Theory and Application of Biomedical Signal Processing

Message from the Guest Editor

Possible applications of biomedical signal processing include the development of computer-assisted diagnosis solutions, such as tools analyzing electrocardiography (ECG) to diagnose cardiovascular conditions and electroencephalography (EEG) to diagnose neurological disorders. In biomedical engineering, signal processing techniques are used in the design and development of medical devices and technologies, such as pacemakers, prosthetics, and imaging systems. In physical therapy and rehabilitation, sensors and wearable devices can be used to monitor and track patient movements, with algorithms analyzing and interpreting the data to provide feedback and guidance to the therapist. Authors are invited to submit original manuscripts on topics including, but not limited to, the following:

- New applications of signal processing in healthcare;
- Signal acquisition;
- Signal visualization and annotation;
- Artifact removal and preprocessing;
- Feature extraction;
- Statistical analysis, machine learning, and deep learning for biomedical signals;
- Development of computer-assisted diagnosis tools.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2024)

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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