



Bioimpedance and Signal Processing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Research in bioimpedance sensing and measurement, in combination with developments in the synthesis and analysis of measurement signals, has enabled the development of effective devices for the prediction, diagnosis, and monitoring of diseases. We pay particular attention to wearable sensors and devices that run on limited computing resources with low energy reserve. The last matter sets specific requirements for signal processing—fast calculations at low complexity and low energy consumption. Another feature is that we measure and analyze time-varying impedances as of breathing lungs, pumping heart, and pulsating blood, as well as fast-moving pathogens in high-throughput microfluidic devices. That is, concurrent time- and frequency-domain analysis is required. The third and perennial problem is the suppression of noise and elimination of artefacts. In this Special Issue we invite research papers presenting novel methodologies, algorithms, and mathematical approaches for the generation, acquisition, and processing of bioimpedance signals.





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Editor-in-Chief

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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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