



ECG Signal Processing and Analysis, Computational Technology and Applications

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Message from the Guest Editors

Dear Colleagues,

In the last decades, there have been vast improvements in the biomedical signal processing field thanks to the great advances in many technological fields such as electronics, communications, engineering, computational modeling, and machine learning. In particular, the techniques for the analysis of electrocardiographic signals (ECG) have notably improved and several of them have already been incorporated into ECG recording devices, facilitating their use by clinicians.

The main topics for reviews and original research papers involved in this Special Issue focus on sensors and their application, including new methodologies, techniques, solutions and potential applications in the field of cardiac signal processing and simulation:

- ECG recordings with wearables: offline and real-time embedded signal processing techniques;
- In silico ECG simulations: from the ionic level up to the 3D thoracic volume;
- ECG ambulatory monitoring in diseased patients;
- ECG processing in extreme conditions such as hyperbaric environments or abnormal temperature and humidity contexts.





sensors



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Message from the Editor-in-Chief

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