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Body Surface Physiological Sensing for Advanced Cardiovascular Healthcare

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Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

Cardiovascular healthcare is of global concern and the enabling technologies are undergoing rapid unprecedented changes which have increased the versatility and reliability of ambulatory, or at home, continuous non-invasive long-term monitoring of the heart's rhythm through ECG sensing, and level of cardiac pumping through various plethysmographic sensing techniques. Besides the accelerated progress in medical electronics, in fast wireless connectivity, in advanced medical informatics and in data analytics methods, cardiac biomedical sensors development is offering an opportunity to capture dynamic body-surface physiological parameters in real-time, in nonintrusive and continuous mode, by flexible electronics packaging and new materials and technology, for facilitating advanced cardiovascular healthcare.

This Special Topic falls within the following scopes of Sensors: wearable biosensors; non-invasive physical sensors; wireless connected sensors; signal processing, data fusion, deep learning and artificial intelligence in sensor systems; body surface physiological sensor technology and application; advanced materials for body surface sensing; sensor devices and systems.



mdpi.com/si/96821

Special Issue



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Message from the Editor-in-Chief

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