

Special Issue

Advanced Sensors and Applications for Heart Rate and Heart Rate Variability

Message from the Guest Editor

Heart rate variability has been extensively researched in clinical settings in recent decades. In the meantime, wearable sensors including smartphones have allowed for non-invasive and continuous measurement of heart rate variability. These convenient monitoring capabilities have led to the commercialization of a variety of wearable sensors and smartphone applications. Nevertheless, only a few wearable sensors and smartphone applications have been clinically validated. Currently, evolving algorithms and mathematical models increase opportunities to monitor physiological data including heart rate variability, not only in everyday life, but also for clinical purposes. Applications range from performance monitoring and enhancement of everyday life to clinical assistance that improves the quality of life of patients with chronic diseases. We invite investigators to contribute with original research articles as well as review articles that will stimulate continuing efforts to more effectively apply wearable sensors or smartphone applications in monitoring heart rate variability in everyday life or for medical purposes.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

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