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Advanced Sensors and Applications for Heart Rate and Heart Rate Variability

Guest Editor:

Prof. Dr. Jinseok Lee

Department of Biomedical
Engineering, Kyung Hee
University, Seoul, Korea

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Jinseok Lee

Guest Editor



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Special Issue



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Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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