

Special Issue

Applications of Photoplethysmography (PPG) in Healthcare and Wellbeing

Message from the Guest Editors

We are inviting submissions to the Special Issue on Applications of PPG in Healthcare and Wellbeing. https://www.mdpi.com/journal/applsci/special_issues/potoplethysmography_wellbeing Photoplethysmography is considered a non-obtrusive optical method to detect subcutaneous blood volume variations related to the heart beat. Due to the wide availability of the technique in mobile or wearable smart devices, several applications and a huge amount of data can become accessible for analysis and further decision-making. Besides pulse rate monitoring in high-risk patients or during sport activities, an increasing number of studies are dealing with screening or follow-up in peripheral vascular disease, measuring blood pressure, pulse rate variability or arterial stiffness, and extracting respiratory rate, among others. The signal quality is crucial for the reliability and repeatability of the measurements, hence, the validation must precede commercialization. This Special Issue is open to original research manuscripts on applications and validation of photoplethysmography, in particular in mobile/wearable electronics.

Guest Editors

Prof. Dr. Panicos Kyriacou

Research Centre for Biomedical Engineering, School of Mathematics, Computer Science and Engineering, City, University of London, Northampton Square, London EC1V 0HB, UK

Dr. Laszlo Hejje

Heart Institute, University of Pécs, 7624 Pécs, Hungary

Deadline for manuscript submissions

closed (20 June 2023)



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Applied Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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