

Special Issue

Advanced Optical Technologies for Non-Invasive Sensing and Biomedical Monitoring

Message from the Guest Editor

This Special Issue seeks, therefore, contributions that describe advances in optical technologies for non-invasive sensing and biomedical monitoring. Optical techniques may be used to measure physiological parameters including heart rate, respiratory rate, blood oximetry and blood pressure. Additionally, contributions are sought that use machine learning and artificial intelligence processing to analyze the data for indications of ailments, such as atrial fibrillation or hypertension.

- Keywords: contactless vital sign monitoring, non-invasive optical monitoring, physiological measurements, heart rate, respiratory rate, photoplethysmography (PPG), remote PPG, imaging PPG, wearable optical sensors, machine learning and AI processing and sensor fusion of vital signs, contactless blood pressure or hypertension, oximetry, facial blood flow, chest motion, 3D cameras for vital signs, extended-reality Eyewear for vital sign measurements

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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.

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