

Special Issue

Advancements in Arterial Pulse Measurement Technologies: Sensors, Signal Processing, and Clinical Applications

Message from the Guest Editors

This Special Issue will explore recent advancements in arterial pulse measurement technologies, with a particular focus on innovations in sensor design, signal processing, and their clinical applications. Arterial pulse measurements play a pivotal role in assessing cardiovascular health, and the development of advanced, non-invasive sensors has revolutionized this field. Innovations such as wearable sensors, including photoplethysmography (PPG) devices, tactile sensors, and accelerometers, have significantly enhanced the ability to monitor pulse waveforms in real-time with greater accuracy and portability. Machine learning algorithms, wavelet analysis, and time-frequency methods are enabling the extraction of more precise features from pulse signals, allowing for the early detection of cardiovascular diseases such as hypertension, atherosclerosis, and arrhythmias. This Special Issue will bring together cutting-edge research that highlights both the technological advancements and the promising clinical applications, underscoring the transformative impact of arterial pulse measurement on early disease detection and health management.

Guest Editors

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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.

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