

Special Issue

Systems for Contactless Monitoring of Vital Signs

Message from the Guest Editors

The remote monitoring of vital signs is transforming healthcare by enabling continuous, non-invasive assessment of physiological parameters. Advances in sensor and radar technology now allow real-time, contactless measurement of key vital signs—such as heart rate and respiration—along with precise tracking of patient posture and location. These technologies are particularly valuable for chronic disease management, post-operative care, home monitoring, and emergency response, where unobtrusive and long-term sensing enhances efficiency and safety. Integrating patient tracking and localization further supports timely interventions and optimizes healthcare resource allocation. This Special Issue welcomes original research on innovative systems for continuous, contactless monitoring of vital signs, tracking, and localization. Topics of interest include advanced sensing technologies, integration challenges, and the development of reliable, accurate monitoring systems. Relevant approaches include radar sensors, camera-based systems, and acoustic sensing. Contributions focusing on novel system designs and real-world applications are particularly encouraged.

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.

Editor-in-Chief

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