

Special Issue

Innovative IoT Devices in Biomedical Monitoring: From Design to Application

Message from the Guest Editors

The convergence of Internet of Things (IoT) technologies and biomedical monitoring is revolutionizing healthcare through real-time, continuous, and personalized assessment. Advances in miniaturized sensors, wireless communication, and intelligent edge computing enable the development of next-generation wearable, implantable, and ambient devices for health tracking and diagnostics. This Special Issue will highlight innovative contributions spanning device design, AI-driven data processing, and clinical applications of biomedical IoT systems. Authors are invited to submit original research articles and reviews on topics including, but not limited to, the following:

- Design and fabrication of biomedical IoT devices and sensors;
- Wearable, implantable, and epidermal monitoring systems;
- Imaging-enabled IoT for health (smartphone/handheld; camera- and optics-based sensing);
- Wireless body area networks (WBANs) for healthcare;
- Edge, fog, and cloud computing in biomedical IoT systems;
- Artificial intelligence and machine learning for physiological signal and biomedical image analysis;
- Sensor fusion, calibration, and multimodal data integration;
- IoT-based telemedicine and remote patient monitoring.

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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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