Special Issue

Smart Healthcare 4.0: AI, Quantum Computing, and Real-Time Biomedical Monitoring

Message from the Guest Editors

This Special Issue invites pioneering research on quantum-driven AI methodologies for real-time biomedical monitoring, covering areas such as quantum-assisted physiological sensor (EEG and ECG, etc.) analytics, variational quantum circuits for biosignal denoising, quantum-enhanced Fourier transforms for spectral decomposition and quantum Boltzmann machines for disease classification. Additionally, the role of IoT-enabled intelligent sensors, federated learning, fog computing, and edge AI will be explored to develop autonomous, self-adaptive, and energy-efficient healthcare monitoring solutions. This research aims to establish precision-driven, real-time, and adaptive biomedical monitoring systems, revolutionizing healthcare delivery in the era of Smart Healthcare 4.0.

Guest Editors

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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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