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Novel Approaches to Preventive and Occupational Telemedicine Based on Sensor Fusion

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Deadline for manuscript
submissions:

closed (20 December 2022)

Message from the Guest Editor

Dear Colleagues,

Preventive and occupational medicine requires the acquisition of physiological, psychological, physical, and prior medical data to generate a patient-specific model that can be used to detect anomalies. This Special Issue is looking for papers that deal with a decentralized multi-sensor-fusion approach based on flexible mobile data-collection platforms that can be used to create a preventive health-management system. We are looking for novel algorithms and hardware systems that can connect, acquire, and synchronize various sensors attached to a person's body and then securely transmit the fused data to a cloud server. The data used by such systems may include different mobile data sources from a remote data collection system, including directly coupled wireless sensor devices, indirectly connected devices from vendor-specific cloud solutions, and prior medical knowledge. Once received at the cloud server, the fused data time series is then analyzed using multivariate machine learning algorithms to detect abnormal conditions that can then be transformed into a human-understandable form that users or clinicians can quickly understand.



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Special Issue



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Message from the Editor-in-Chief

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