Special Issue

Sensing Technologies and Machine Learning for Cognitive and Physiological Monitoring

Message from the Guest Editor

This Special Issue focuses on the integration of cutting-edge sensor technologies and machine learning (ML) for advancing cognitive and physiological monitoring.

- Embedded systems for physiological monitoring applications.
- AI-enhanced sensor fusion for cognitive state detection.
- Advanced signal processing for wearable biosensors.
- Advanced sensor technologies for brain–computer interface (BCI) systems.
- Emerging sensors for real-time brain-computer interface applications
- The fusion of sensor data and machine learning for real-time cognitive state assessment.
- Energy-efficient sensor architectures for continuous health monitoring.
- Low-power machine learning architectures for wearable physiological sensors.
- Personalized machine learning models for physiological and cognitive monitoring.
- Generative machine learning for cognitive and physiological monitoring.
- Edge AI for cognitive and physiological monitoring.
- Advanced sensor technologies for multi-modal physiological monitoring.

Guest Editor

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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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