Special Issue

Intelligent Control of Cyber-Physical Networks: Complex Sensing Networks, Neuromorphic Sensing, and Machine Learning

Message from the Guest Editors

Cyber-physical networks represent a paradigm shift in integrating computational intelligence with physical dynamics, enabling autonomous sensing, decision-making, and control across critical infrastructures such as smart grids, autonomous vehicles, and industrial automation systems. The convergence of complex sensing networks, neuromorphic sensing, and machine learning (ML) has unlocked unprecedented capabilities for adaptive control, real-time optimization, and resilience against dynamic uncertainties. However, challenges persist in scalability, energy efficiency, security, and the seamless integration of heterogeneous hardware and software components

This Special Issue aims to assemble original research and comprehensive reviews on cutting-edge advances, analytical frameworks, technological solutions, sensing-oriented applications, and emerging challenges in the theory and implementation of cyber-physical networks. For detailed information, please visit here.

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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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