Special Issue

Artificial Intelligence/Machine Learning in Cyber-Physical Systems Design

Message from the Guest Editors

In the realm of Cyber-Physical Systems (CPS), the integration of Artificial Intelligence (AI) and Machine Learning (ML) techniques has emerged as a transformative force. The scope of this Special Issue includes, but is not limited to, the following: (1) Al-driven optimization techniques for CPS design and operation (2) ML-based predictive modeling for fault detection and diagnosis in CPS (3) Reinforcement learning approaches for autonomous control and decision-making in dynamic CPS environments (4) Integration of AI/ML algorithms with Internet of Things (IoT) devices for enhanced sensing and actuation capabilities in CPS (5) Implementation of AI/ML in power systems for improved control and performance, and resiliency improvements (6) Ethical and societal implications of deploying AI/ML in CPS (7) Case studies and practical applications showcasing the real-world impact of AI/ML integration in diverse CPS domains

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2025)



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