

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) AI-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

Dr. Imtiaz Parvez

Dr. Anjan Debnath

Dr. M. Al Mamun

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Electronics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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