

Special Issue

Cyber-Physical Systems in Industrial IoT

Message from the Guest Editors

In general, a commonly accepted definition of cyber-physical systems (CPSs) refers to systems where software and hardware components are seamlessly integrated toward performing well-defined tasks. CPSs are one of the core technologies of Industry 4.0. The integration of CPSs is essential in Industry 4.0 functioning. With CPSs, machines are able to communicate with each other, and decentralized control systems are able to optimize production. The integration of CPSs is leading to complexities emerging from the interactions among cyber systems and the uncertain dynamic behavior of physical systems. This Special Issue will focus on (but is not limited to) the following topics: - New computing architecture for CPSs in industrial IoT; - New communication mechanisms for CPSs in industrial IoT; - Advanced AI/ML models for CPSs in industrial IoT; - Advanced networking among CPSs for industrial IoT; - Applications of CPSs in industrial IoT.

Guest Editors

Prof. Dr. Li Da Xu

Department of Information Technology, Old Dominion University,
Norfolk, VA 23529, USA

Dr. Shancang Li

Department of Computer Science and Creative Technologies,
University of the West of England, Bristol BS16 1QY, UK

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
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