

Special Issue

Cyber-Physical Production Systems Integrated into Industry 4.0 and Industry 5.0

Message from the Guest Editors

Due to industrial automation, the integration of Cyber-Physical Production Systems (CPPS) with Industry 4.0 and Industry 5.0 has emerged as a transformative paradigm. Industry 4.0 represents the fourth industrial revolution, characterized by the fusion of digital technologies, data-driven decision making, and the seamless interaction between physical and virtual components, while Industry 5.0 represents the reintroduction of sustainability, human-centricity, and resilience within manufacturing. The concept of Cyber-Physical Production Systems lies at the heart of innovation, which seamlessly integrate the physical processes of manufacturing with advanced digital technologies. This integration not only enhances efficiency and productivity, but also introduces new frontiers for innovation and customization in industrial processes. This Special Issue explores the fundamental principles and implications of incorporating CPPS into the broader frameworks of Industry 4.0 and Industry 5.0, highlighting the synergies that drive industrial advancement. SI link:

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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