Special Issue

Cyber–Physical Systems toward Smart Manufacturing and Industry 4.0

Message from the Guest Editors

A cyber–physical system (CPS), also recognized as an intelligent system, is a computer-supported system in which one or more processes are controlled or monitored by computer algorithms. The existence of a CPS is an important prerequisite of the development of Industry 4.0 and smart manufacturing systems. Industry 4.0 systems are merging many—even very different—technologies into one system, and this integration process very often starts with CPS. Sustainability issues often arise during this process, such as synergies, long-term operability and upgradeability, operation, return on investment, energy efficiency, recyclability, and scrap.

Topics and themes of this Special Issue can include, but are not limited to:
Using CPS in different processes
Harmonization of different CPS solutions (integrated into Industry 4.0)
Challenges and responses to using CPS
Technologies that CPS can use
Benefits and savings (cost, energy, etc.) from using CPS
Data-driven maintenance based on CPS
Digital challenges, questions and answers on CPS
Sustainability issues related to CPS
Big Data solutions for CPS systems
Intelligent decision support systems in CPS for sustainability

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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