

Special Issue

Monitoring, Optimization, Control and Artificial Intelligence in Manufacturing System

Message from the Guest Editors

The core concept of the 4th industrial revolution can be represented as cyberphysical systems (CPS) such that, in this regard, manufacturing systems are also evolving as a form of digital transformation. Many sensors and data communication networks have helped the transformation of manufacturing systems into CPS. More data is collected in this environment, and the collected data provides new opportunities to improve conventional manufacturing processes by making them more efficient and intelligent. This change in the amount of collectable data requires new methodologies for monitoring, optimizing, controlling manufacturing systems. In addition, the application of big data and AI in manufacturing systems is resulting in new breakthroughs for the future of factories. However, the revolution is still ongoing and under development, necessitating further research. Hence, this Special Issue will focus on new developments in manufacturing systems in terms of monitoring, optimization, control, and artificial intelligence.

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