Special Issue

Application of Intelligent Manufacturing Technology in Industrial Production

Message from the Guest Editors

Intelligent manufacturing is currently one of the most remarkable research topics concerning industrial processes. Also known as smart manufacturing or Industry 4.0, it represents the integration of innovative techniques into the manufacturing process to improve efficiency, productivity, and flexibility. This Special Issue focuses on applications of the most significant technologies of the fourth industrial revolution in the field of manufacturing processes. Potential topics include, but are not limited to, the following areas:

- Intelligent monitoring, intelligent quality control, and predictive maintenance;
- The metaheuristic optimization of industrial processes and systems;
- Collaborative industrial robotics and human–machine collaboration;
- Intelligent digital twins;
- Industrial cyber–physical systems;
- Sustainable manufacturing and the circular economy of manufacturing processes;
- AI for additive manufacturing;
- Big data analytics for manufacturing;
- Blockchain in manufacturing, including secure supply chains and traceability;
- Cybersecurity for smart manufacturing systems;
- Service-oriented and collaborative manufacturing.

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Editor-in-Chief

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