Artificial Intelligence Applications for Industry 4.0

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Message from the Guest Editors

With the advent of new technologies brought about by Industry 4.0, the complexity of production systems continues to increase to ensure a high degree of adaptability, flexibility, reconfigurability and robustness. The importance of flexibility largely determines the ability of a system to effectively deal with a variety of uncertainties and their consequences. Artificial Intelligence solutions are one of the most important technologies that can ensure this flexibility.

This Special Issue aims to present AI approaches in smart factories, especially in the field of sustainability. Topics of interest include, but are not limited to:

- AI and sustainable infrastructure;
- AI and green transportation;
- AI and additive manufacturing;
- Decision-support systems, including evolutionary algorithms, swarm intelligence, etc.;
- Deep learning;
- Neural networks;
- Fuzzy systems;
- Architectures, methods, and approaches for distributed AI systems;
- Image processing, pattern recognition, and speech recognition;
- AI and responsible consumption;
- Practical applications with the aforementioned approaches in industry, such as case studies or benchmarking

Special Issue

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Message from the Editor-in-Chief

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