Special Issue

Opportunities for Industry 4.0/5.0: AI-Driven Data Analysis, Process Optimization and Automation

Message from the Guest Editors

This Special Issue on “Opportunities for Industry 4.0/5.0: AI-Driven, Data Analysis, and Process Automation” seeks high-quality works focusing on the latest advancements and applications of AI, data analysis, and automation in the context of Industry 4.0 and 5.0. We invite researchers and practitioners to submit original research articles, reviews, and case studies that explore the theoretical foundations, methodologies, and practical implementations of these technologies. Topics include, but are not limited to, the following:

- AI and machine learning for predictive maintenance and fault detection;
- Big data analytics for process optimization and decision-making;
- Cyber–physical systems and their role in smart manufacturing;
- Internet of Things (IoT) applications in industrial automation;
- Human–robot collaboration and co-working environments;
- Advanced manufacturing technologies and smart factories;
- Data-driven quality control and assurance in production;
- Sustainable and energy-efficient industrial processes;
- Decision-making models and optimization in industrial processes;
- Fuzzy logic and its applications in Industry 4.0/5.0

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