Special Issue

Artificial Intelligence for Industrial Informatics

Message from the Guest Editors

This Special Issue aims to explore the latest research, developments, and practical implementations of AI in industrial environments, focusing on machine learning, deep learning, computer vision, natural language processing, intelligent data analysis, system modeling, maintenance, logistics, predictive decision-making in industrial environments, and process control. Topics of interest include, but are not limited to, the following:

- Predictive maintenance and fault detection;
- Industrial process optimization;
- Intelligent control systems and automation;
- Cyber–physical production systems and digital twins;
- AI for industrial robotics and human–machine collaboration;
- Anomaly detection in smart manufacturing;
- AI-driven industrial cybersecurity;
- AI-based quality assurance and inspection;
- Applications of LLMs in industrial informatics;
- Case studies with smart services and platforms;
- Explainability and transparency in industrial AI applications.

Submissions that demonstrate real-world applications, interdisciplinary approaches, or experimental validation in industrial settings are particularly welcome.

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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