# Special Issue

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

## Message from the Guest Editors

This Special Issue on "Opportunities for Industry 4.0/5.0: Al-Driven, Data Analysis, and Process Automation" seeks high-quality works focusing on the latest advancements and applications of Al, 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:

- Al 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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## Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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