

## Special Issue

# Advances in AI and Optimization for Scheduling Problems in Industry

### Message from the Guest Editors

In today's rapidly evolving industrial landscape, efficient scheduling remains a critical challenge that significantly impacts productivity and operational effectiveness. The integration of artificial intelligence (AI) and advanced optimization techniques offers promising solutions to these scheduling problems, enabling industries to enhance their decision-making processes and operational efficiency. This Special Issue, "Advances in AI and Optimization for Scheduling Problems in Industry", aims to explore the latest advancements and applications of AI and optimization methods in tackling complex scheduling problems across various industrial sectors. This Special Issue seeks to highlight the confluence of AI and optimization techniques in industrial scheduling, focusing on innovative research that demonstrates the practical applications and benefits of these technologies. Contributions on a wide range of topics are invited, including but not limited to the use of AI for predictive scheduling, the role of optimization algorithms in dynamic environments, the integration of IoT for smart scheduling, and the impact of AI on workforce management.

### Guest Editors

Dr. Ran Ji

Dr. Jose Machado

Dr. Zhengyang Fan

### Deadline for manuscript submissions

15 September 2025



## Applied Sciences

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### 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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### Editor-in-Chief

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