

Special Issue

Artificial Intelligence Technologies and Methods for Green Manufacturing

Message from the Guest Editors

The goal of this Research Topic is to explore AI methods and technologies, using both solid theoretical development and practical importance to implement green manufacturing. The central theme of the proposed Research Topic is AI Technologies for Green Manufacturing, where intelligent analysis, control, and optimization are the focus areas, and broad aspects and issues will be carefully discussed. Topics to be covered include, but are not limited to, the following:

- Green design methods driven by AI, including knowledge graphs, intelligent evaluation, and generative design algorithms, etc.;
- Low-carbon manufacturing driven by large language models or optimization algorithms;
- AI optimization of green manufacturing processes, including intelligent inspection, process optimization, and virtual manufacturing, etc.;
- Green workshop scheduling driven by big data analysis and intelligent optimization;
- Custom language models driving low-carbon remanufacturing;
- Remanufacturing process planning driven by knowledge graphs and optimization algorithms;
- Reverse supply chain driven by

Guest Editors

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