



Smart Processes for Machines, Maintenance and Manufacturing Processes

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Message from the Guest Editors

Machine intelligence has become one of the important directions for the development of the manufacturing industry.

This special issue is focus on smart processes for machines, maintenance and manufacturing processes. We are seeking papers on all kinds of engineering designs assisted by artificial intelligence (AI) and computer vision/digital twins/knowledge graph, with a clear contribution to the advancement in the discipline. The research work can include, but is not limited to, any branch of mechanical design, maintenance, manufacturing process, 3D generation, MEMS and optical measurements.

Original research papers, review articles and short communications are all welcome.

Possible topics include, but are not limited to, the following:

- Computer vision.
- Mechanical design.
- Machine learning/deep learning.
- Precision manufacturing.
- Artificial intelligence in manufacturing processes.
- Smart maintenance method based on knowledge analytics.
- Digital twin-driven method for equipment health status assessment and fault prediction.
- Knowledge graph-driven quality control and analysis for equipment operation and maintenance



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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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