

Special Issue

Cutting-Edge Innovations in Precision Machining and Forming Technology

Message from the Guest Editors

This Special Issue encourages original research addressing key challenges in the precision industry, covering process mechanisms, equipment development, and industrial application cases, with a view towards higher-accuracy precision manufacturing, lower energy consumption, and enhanced intelligence. Key topics include the following:

- Precision Equipment: Machine tool optimization, servo control, fluid-power systems
- Smart/Green Tech: IoT/digital twin monitoring, energy tracking/saving, multi-physics simulation
- Ultra-Precision Machining: Vibration-assisted cutting, multi-energy processes, micro/nano control, tool wear
- Advanced Forming: Stamping mechanisms, fine blanking, ultra-hard tool wear/lifespan
- Quality: Error compensation, defect detection, surface optimization

Guest Editors

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About the Journal

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.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).