Special Issue

Machining Challenges towards Pico-Precision

Message from the Guest Editors

In this Special Issue, we seek papers on all kinds of machining processes where extreme levels of precision are required. Research works can include but are not limited to:

- Theoretical foundations and framework for working towards pico-precision;
- Modeling and analysis: high precision and high accuracy;
- Fundamental mechanisms in the machining of hard and brittle materials;
- High-speed machining of hard and brittle materials;
- Ultrasonic machining of hard and brittle materials;
- Machining for biomedical implants, tissue engineering, and human/animal bone;
- Hybrid processes (physical–chemical–optical-nano-processes) and beyond;
- Advanced modeling and simulations for pico-precision;
- Design of future generation of ultraprecision machines and machining systems;
- Novel and innovative ultraprecision machining process development;
- Research and industrial case studies.

Guest Editors

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Dr. Atul Babbar

Dr. Shubham Sharma

Dr. Ankit Sharma

Deadline for manuscript submissions

closed (31 July 2023)

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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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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).