

Special Issue

State-of-the-Art Machining Technology: Advancing Precision Metrology, Fabrication, and Positioning

Message from the Guest Editors

This Special Issue, titled “State-of-the-Art Machining Technology: Advancing Precision Metrology, Fabrication, and Positioning”, delves into the cutting-edge developments in precision metrology, precision fabrication, and precision positioning techniques. Papers in all areas of machining technology will be considered, including but not limited to:

- Deflectometry/interferometry/scattering metrology;
- Fringe projection metrology;
- Wavefront sensing;
- Surface profilometry: optical and scanning probe;
- Additive manufacturing (e.g., 3D printing);
- Micromachining/Nanofabrication;
- Positioning technology;
- Machine tool design;
- Motion control systems;
- Smart/sustainable manufacturing;
- Robotics and automation;
- Literature review/survey on state-of-the-art manufacturing technologies;
- Single point diamond turning;
- Advanced surfacing and finishing technologies;
- Metrology and fabrication for middle-spatial-frequency errors.

Guest Editors

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Dr. Xiaolong Ke

Deadline for manuscript submissions

closed (31 August 2024)



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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.

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