

## Special Issue

# Advances in Multi-Axis Machining

### Message from the Guest Editor

This Special Issue on “Advances in Multi-Axis Machining” provides a forum aiming to bring together the international community of experts in the field of multi-axis CNC machining to share their cutting-edge scientific research works, and to explore the future development perspectives and stimulate new ideas. We welcome researchers from around the globe to submit papers to this Special Issue in the *Journal of Manufacturing and Materials Processing* (ISSN 2504-4494) to share their valuable new insights in the field of multi-axis machining. **Scope and Topics** (but not limited to)

- Knowledge- and feature-based multi-axis machining;
- Energy consumption in multi-axis machining;
- Efficient tool axis and tool position computation;
- Collision avoidance in multi-axis machining;
- General multi-axis tool path computation algorithms;
- Simulation, verification, and post-processing of multi-axis machining;
- Surface topography in multi-axis machining;
- Setup, planning, and pre-processing of multi-axis machining;
- Chattering and cutting dynamics in multi-axis machining;
- Tool wear and cutting parameter optimization in multi-axis machining;
- ...

### Guest Editor

Prof. Dr. Kai Tang

Department of Mechanical Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, China

### Deadline for manuscript submissions

closed (31 May 2022)



## Journal of Manufacturing and Materials Processing

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Impact Factor 3.3  
CiteScore 5.2



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## About the Journal

### Message from the Editor-in-Chief

*Journal of Manufacturing and Materials Processing (JMMP)* (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

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### Editor-in-Chief

Prof. Dr. Steven Y. Liang  
George W. Woodruff School of Mechanical Engineering, Georgia  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2024).