

# Call for Papers

Special Issue on **Advanced Design and Performance**

## **Evaluation of Production Systems**

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Editor: Prof. Dr. Atsushi Matsubara, Kyoto University, Japan

Guest Editors TBD

The development of machining and measurement systems is strongly driven by the demands of digital transformation (DX) and green transformation (GX). Specifically, it is necessary to solve critical challenges in various fields, such as design, manufacturing, inspection, maintenance, and recycling, in response to the requirements of labor reduction, skill-free operation, and efficiency improvement throughout the entire production process. Furthermore, it is necessary to maintain social prosperity while controlling resource consumption by connecting these challenges. Therefore, tools that have supported production, such as machine tools, assembly machines, industrial robots, and measuring instruments, need to improve their conventional basic performance. It is also vital to circulate design, evaluation, and operational information in the value cycle.

The papers in this special issue discuss the concept of design, manufacturing, and evaluation technologies of production machines, methods of circulating information for individual tools, and evaluation methods from the perspective of GX.

- Optimal design of production machines and measurement systems
- Digital twin of production machines and machine elements
- New evaluation methods for production machine and machine elements
- On-machine process evaluation
- Design and evaluation of sensor fused intelligent systems

\*Speedy Review (1-2months for the first review)

\*You can submit a paper in Japanese (will be translated)

*Pages and important deadlines:*

Number of pages: **No limit**

Manuscripts should be in IJAT formats of Microsoft Word, TeX.

Submission Deadline: **May 31, 2024**

Publication: **January 5, 2025 (Vol.19, No.1)**

*For details on submission, go to:*

URL: <https://www.fujipress.jp/ijat/au-authors/>

\*Paper is to be evaluated by two reviewers, then submitted to the IJAT Editing Committee for final selection.

Reviews take about three weeks from paper receipt until notification of first review results.

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We look forward to your submission!!