

Special Issue on Self-Optimizing Machining Systems

Guest Editors:

Prof. Dr. Yasuhiro Kakinuma, Keio University, Japan
Assoc. Prof. Dr. Daisuke Kono, Kyoto University, Japan

The idea of Self-Optimizing Machining Systems (SOMS) has been proposed in the era of Industry 4.0. In order to optimize for productivity, quality, and efficiency in manufacturing, each component technology related to machining processes such as CAD/CAM, process modeling/simulation, machine tool use, process monitoring/control, workpiece assessment, etc. has been developed independently, although the interactions among these component technologies determine the final machining performance and the quality of the products. SOMS deals with the information links among these components. Viewed from the opposite side, these links and functionalities could be combined to develop comprehensive SOMS. Nevertheless, an intensive implementation and combination of these technologies has yet to catch up with the state-of-the-art industrial level. Industry 4.0 requires that SOMS undergo further research and development.

This Special Issue focuses on SOMS research trends, with an emphasis on the interactions among process modelling/simulation and process monitoring/control. We hope this Special Issue will contribute to the future research and development efforts of researchers and engineers in the field of manufacturing and machining systems.

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

*IJAT is indexed in ESCI; Scopus; Compendex (Ei-Index)

*採録後に英文校閲を行います。

日本語原稿は投稿前に出版社で翻訳できます。

Pages and important deadlines:

Number of pages: 8 pages (but no limit)
Manuscripts should be in IJAT formats of Microsoft Word, TeX.

Submission Deadline: ~~July 30, 2021~~ **Extension!**

August 31, 2021

(August 10, 2021 in Japanese)

Publication: March 5, 2022 (Vol.16 No.2)

Submit your papers to: [online submission site]

<http://mc.manuscriptcentral.com/ijat>

For details on submission, go to: <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.

*A page charge (publication fee) is required for publication. For fees and prices, please see price list for page charge and reprints. Please see details on URL: https://www.fujipress.jp/ijat/au-authors/#page_charge

*It is highly recommended referring to related IJAT papers in your making manuscript.

You can download full-texts of all IJAT publications for free (open access) in <https://www.fujipress.jp/ijat/au/>

For details on the journal, go to: <https://www.fujipress.jp/ijat/>

Publisher: Fuji Technology Press Ltd. Inquiry: auto@fujipress.jp



Unizo Uchikanda 1-Chome Bldg. 2F, 1-15-7 Uchikanda, Chiyoda-ku, Tokyo 101-0047, Japan

Phone: +81-3-5577-3851 / Fax: +81-3-5577-3861

URL: <https://www.fujipress.jp/ijat/>

