

Call for Papers

Special Issue on "Modeling and Simulation of Cutting process"

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In the over 5 decades since the first numerical control (NC) machine tool was demonstrated at the Massachusetts Institute of Technology in Boston, advances such as multiaxis and multitasking machine tools have continuously been introduced, bringing both high quality and productivity to machining operations. Problem-free operations, however, remain a challenge, and models able to quantitatively predict metal cutting process performance remain to be developed.

Topics of interests in this special issue include but are not limited to

- Modeling of machining processes
- Modeling of machine tool dynamics
- Prediction of cutting force, cutting temperature, surface roughness, etc.
- Prediction of machining stability
- Simulation-based machining-process diagnostics
- Optimization using machining simulation

Those contributing to this special issue should present work centering on state-of-the-art modelling and simulation applicable to the machining and manufacturing domains. Both theoretical and practical papers are welcome.

Please note the following important deadlines:

Submission: **December 15, 2009** (December 1, 2009 in Japanese)

Final Manuscript Submission: **February 22, 2010**

Publication date: **May 5, 2010**

Papers should be submitted in Microsoft Word or PDF format.

For details on submission, go to:

URL: http://www.fujipress.jp/IJAT/IJAT_authors.html

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URL: http://www.fujipress.jp/IJAT/IJATdocuments_eg.pdf

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Please submit your papers and questions or comments to:

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We look forward to hearing from you!!