

Special Issue

Machining Dynamics and Parameters Process Optimization

Message from the Guest Editors

This Special Issue on the topic of “Machining, Cutting Dynamics, and Parameters Process Optimization” is oriented toward (but not limited to) the different strategies and paths when it comes increasing productivity and reliability in metal removal processes.

- Dynamic characterization and modeling of machine tools;
- Experimental Techniques for chatter avoidance: online chatter detection and monitoring, passive and active vibration suppression;
- Metal cutting mechanics: cutting force models, surface topography models, thermal models, and so on;
- Artificially intelligent models and optimization techniques to improve process reliability;
- Characterization and machinability of new emerging materials, difficult to cut alloys, etc.;
- Cutting tools: design, behavior and study of grades, substrates, coatings, and wear;
- Sensor-assisted machining and in-process data analysis.

Dr. Gorka Urbikain Pelayo

Guest Editors

Dr. Gorka Urbicain

Department of Mechanical Engineering, University of the Basque Country (UPV/EHU), Plaza Europa 1, 20018 San Sebastián, Spain

Dr. Daniel Olvera Trejo

Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Ave. Eugenio Garza Sada 2501, Monterrey, NL 64849, Mexico

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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