Special Issue

Design and Application of Advanced Manufacturing Systems

Message from the Guest Editor

This Special Issue will focus on new applications and implementations of advanced manufacturing systems, particularly targeting energy efficiency and manufacturing accuracy. Machining operations (cutting, forming, deburring) using industrial robots and how to improve the machining accuracy of the robotic system will be considered as topics of interest. The design of working units (cutting heads or similar) or auxiliary devices designed to increase the number of degrees of freedom for robotic systems (such as rotary tables) will also be included as topics for this Special Issue. Another group of topics will deal with multi-axis machining operations on CNC machine tools. Studies on the machining accuracy and energy efficiency of these operations will be considered. Another area of interest will address hybrid machining, involving both additive and subtractive manufacturing operations. Studies on the design of machining units for hybrid machine tools will also be expected within this theme.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2024)



Machines

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Impact Factor 2.5 CiteScore 4.7



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso

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Journal Rank:

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

