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New Advances in Precision Machining

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Message from the Guest Editor

In the manufacturing industry, the term "precision machining" refers to single-digit tolerances at the micron level, while ultra-precision machining refers to submicron values. Precision machining emerges as a need for many industries: aerospace, fluids, medical, dental, sports, and high-tech fields. New technological areas, where smaller and more complex parts are being used intensively, are increasingly in need of precision machining processes.

This Special Issue addresses numerous research challenges in different fields, including precision machining technologies, novel machining processes, cutting mechanics, surface generation mechanisms, novel machine design, advanced sensing, machine metrology, accurate control of the machining process through the modeling and simulation of precision machining processes, materials sciences, measurement and on-machine metrology, as well as advanced applications for functional uses. This Special Issue aims to provide a good collection of the latest research results and findings in recent advances in precision machining technology and applications.



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Special Issue



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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.

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