

Special Issue

Advances in Computer-Aided Technology

Message from the Guest Editors

Computer-aided technologies (CAx) encompass the use of computer technology to aid in the design, analysis, and the manufacture of products. Significant progress has also been made in this area, due to the rapid expansion of science and technology. Advanced CAx tools combine many different aspects of product lifecycle management (PLM), including design, finite element analysis (FEA), manufacturing, production planning and product. In connection with the transition to the Industry 4.0 concept, the concept of the digital twin comes to the fore, and existing CAx systems must also adapt to this trend. Industry 4.0 is dominated by concepts such as IoT, 3D printing, robotics, digitalization, 3D scanning, big data, virtual and augmented reality, etc. This Special Issue focuses on this area of progress in computer-aided technology, with a view to a transition to digital manufacturing.

Guest Editors

Prof. Dr. Marek Kočíško

Faculty of Manufacturing Technologies with a Seat in Presov, Technical University of Kosice, Bayerova 1, 080 01 Presov, Slovakia

Dr. Martin Pollák

Faculty of Manufacturing Technologies with a Seat in Presov, Technical University of Kosice, 080 01 Presov, Slovakia

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

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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.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE - Electromechatronic Systems Research Centre, University of
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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