

Special Issue

Advances in Computer-Aided Technology, 3rd Edition

Message from the Guest Editors

Computer-aided technologies (CAx) encompass the use of computer technology to aid in the design, analysis, and 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 products. In connection with the transition to Industry 4.0, 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, and virtual and augmented reality, among others. This Special Issue focuses on this area of progress in computer-aided technology, with a view to a transition to digital manufacturing.

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Deadline for manuscript submissions

31 October 2025



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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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