Special Issue

Advances in Computer-Aided Manufacturing (CAM)

Message from the Guest Editors

Computer-aided manufacturing (CAM) provides efficient and automatable computer and machinery technologies to facilitate manufacturing procedures with high degrees of accuracy and precision. The emergence of modern digital, computer, and manufactory innovations (such as artificial intelligence (AI), virtual manufacturing, 3D printing, intelligent robots, ultra-precision machining, etc.) has posed new challenges in the advancement of computer-aided manufacturing, as well as regarding algorithms and software solutions. Therefore, this Special Issue intends to present new ideas, advanced manufacturing technologies, and high-quality experimental results in the field of CAM from models, algorithms, integrated systems, and practical use theory and applications. Areas and topics relevant to computer-aided manufacturing include, but are not strictly limited to, the following fields:

- Tooling and tool paths in high-speed machining and robotics;
- CAM for multi-function and five-axis machining;
- CNC feature recognition and machining;
- Human–machine interaction;
- The application of artificial intelligence (AI) in CAM;
- Computer-integrated manufacturing.

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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.

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