

Special Issue

Digital Design and Manufacturing: Latest Advances and Prospects

Message from the Guest Editors

The discipline, practice and research of product design is rapidly evolving with the emergence and implementation of digital design and manufacturing technologies. Technologies such as Generative Artificial Intelligence, Digital Twins, Topology Optimization and Industry 4.0 and 5.0 are reshaping the way we conceive, prototype, test, develop, manufacture, certify and distribute products, providing remarkable opportunities for improving their functionality, resource efficiency and value. This Special Issue aims to create a platform for showcasing cutting-edge advancements and real-world applications, inspiring new developments and promoting the applications of emerging digital design and manufacturing technologies. Topics of interest include the following areas: Digital design workflows; Automated design tools; Generative design; Design for additive manufacturing; Digitalization of conventional manufacturing; Human-machine collaboration in digital manufacturing (augmented reality, virtual reality and mixed reality);

Guest Editors

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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.

Editor-in-Chief

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