Special Issue

Design for Additive Manufacturing: Latest Advances and Prospects

Message from the Guest Editors

Additive manufacturing (AM) is recognized as an advanced manufacturing process that can provide tremendous design freedom and dramatically reduce material waste. The advantage of AM is that it can produce a wide variety of products with intricate geometries that cannot be produced using traditional manufacturing methods. Design for Additive Manufacturing (DFAM) means that designers should tailor their designs to eliminate additive manufacturing difficulties and minimize AM production costs. DFAM involves exploring new designs to make them AM-ready or providing design guidelines for AM. DFAM can also include part consolidation or design optimization methods that can significantly reduce weight while maintaining or improving mechanical performance compared to simple solid shapes of parts. This Special Issue will publish original research articles, review articles, and short communications on the latest advances and prospects in DFAM, including, but not limited to, design optimization for AM, part consolidation, DFAM guidelines, design space exploration, topology optimization, and generative design.

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Deadline for manuscript submissions

closed (30 November 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/190737

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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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