Special Issue

Recent Trends on the Mechanical Properties of Additive Manufacturing

Message from the Guest Editors

Current additive manufacturing (AM) processes provide pieces of similar mechanical characteristics to those obtained by so-called conventional manufacturing processes. These processes, which encompass vat photopolymerization, material jetting, material extrusion, binder jetting, powder-bed fusion, sheet lamination, and directed energy deposition, can generate metal, polymer, ceramic or multi-material parts. However, while some technologies obtain excellent results when mechanical properties are evaluated, others have a considerable margin for improvement. This Special Issue of *Applied Sciences* aims to gather together papers investigating AM's improvements in the mechanical properties, focusing on metals, ceramics, and polymers using fused fabrication filament (FFF) and vat photopolymerization. In addition, we welcome other numerical, analytical, and experimental works about process parameters influencing 3D-printing issues, dimensional errors, roughness surface, energy efficiency, and sustainability.

Guest Editors

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Deadline for manuscript submissions

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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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