Special Issue

Additive Manufacturing in Industry

Message from the Guest Editors

The advent of additive manufacturing (AM) processes applied to the fabrication of structural components has created the need for design methodologies and structural optimization approaches that take into account the specific characteristics of the fabrication process. While AM processes give unprecedented geometrical design freedom, which can result in significant reductions of the components' weight (e.g., through part count reduction), on the other hand they have implications for the fatigue and fracture strength, because of residual stresses and microstructural features. This Special Issue of *Applied Sciences* aims at bringing together papers investigating features of AM processes with relevance for the mechanical behavior of AM structural components, particularly, but not exclusively, from the viewpoints of fatigue, fracture, and crash behavior. Although the focus of this Special Issue is on AM, articles dealing with other manufacturing processes with related problems can also be included, in order to establish differences and possible similarities. The submission of papers on numerical simulation, experimental work, or a combination of both is welcome.

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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