Call for papers on special issue “Advances in additive manufacturing: modeling, design, and application”

Guest Editor
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Aim & Scope: Additive Manufacturing (AM) is revolutionizing the manufacturing industry. Building parts layer by layer makes fabrication of geometries which were impossible otherwise. Freedom of fabrication, rapid and low-cost prototyping, and reduction in material waste are only a few of advantages that AM offers to many industries from biomedical to aeronautics. Hence, AM is getting lots of interest over the past few years. These combined with lower cost of 3d printers is making this pace even faster. To keep up with the advancements in AM, this special issue aims to publish high quality research articles in the field of additive manufacturing and its related topics. This includes but not limited to alloy design for AM, new AM technologies and process optimization, process-microstructure-property, characterization of AM parts, modeling AM processes, topology optimization, fatigue, fracture, and failure analysis, tailoring properties, and functionally graded materials through AM. New applications are welcome, as well.

We kindly invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews are all welcome.

Keywords: Additive manufacturing; material science; characterization; implants; biomedical; design; optimization; modeling.

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Subtopic

1 New materials and techniques for additive manufacturing
2 Process optimization; Characterization of additively manufactured parts
3 Modeling of AM processes; Design and topology optimization for AM
4 Emerging applications using AM techniques
5 Fatigue and failure of additively manufactured parts

Deadline for manuscript submissions: 31 December 2020

To submit your manuscript click here. To read author guidelines click here.