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Metal Additive Manufacturing – State of the Art 2020

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editor

Dear colleagues,

Additive manufacturing (AM), more popularly known as 3D printing, comprises a group of technologies used to produce objects through the addition (rather than removal) of material. AM is used in many industries—aerospace and defense, automotive, consumer products, industrial products, medical devices, and architecture. AM is transforming the industry, and this industrial transformation is expected to become more comprehensive and reach a higher pace during the coming years.

Additive manufacturing of metal components with virtually no geometric limitations has enabled new product design options and opportunities, increased product performance, shorter cycle time in part production, total cost reduction, shortened lead time, improved material efficiency, more sustainable products and processes, full circularity in the economy, and new revenue streams.

The papers presented in this Special Issue give an account of the 2020 scientific, technological, and industrial state of the art for metal additive manufacturing from different perspectives (visit www.mdpi.com/si/29428). Your contribution to this 2020 account is highly valuable and appreciated.

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Editor-in-Chief

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Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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