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Metallic Additive Manufacturing: Design, Process and Post-processing

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Deadline for manuscript submissions:
closed (31 January 2018)

Message from the Guest Editors

Metals provide a forum for publishing original papers that advance the in-depth understanding of metal Additive Manufacturing (AM) comprising, design, process and post-processing. Papers that have a high impact potential and/or substantially advance knowledge in AM are sought. Emphasis is on design, process and post-processing of additive manufactured materials, but is not limited to these areas.

The following aspects of the science and engineering of AM metallic materials are of particular interest:

- Design for metal AM.
- Optimization in design and its effect on the mechanical properties.
- AM process control and modeling.
- Topology optimization for industrial and medical purposes.
- Characterization of the structure as it relates to the understanding of the process.
- Post-processing to achieve the desired mechanical properties for different applications.
- Surface quality, morphology, and machinability.
- Thermal phenomena and mass transfer in solidification of the process.

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Message from the Editorial Board

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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