Special Issue

Design for Additive Manufacturing: Engineering Data and Assessment Tools

Message from the Guest Editors

The main topics for this Special Issue include, but are not limited to:

- Design for AM: industrial use cases and real-world applications
- Topology optimization and numerical tools for the design to AM
- Powder bed fusion technologies (DMLS, SLM, SLS) for metallic materials
- New technologies for metallic materials
- Experimental characterization and mechanics of materials.
- Anisotropy affecting mechanical properties
- Static, fatigue and impact testing
- Tribological properties and surface finishing of AM produced parts
- Microstructure, internal and external defects of AM produced parts
- Heat, mechanical, chemical and surface treatments for AM produced components
- Residual stresses in AM produced components: detection and assessment
- Powder recycling with regard to economic and technological aspects and its impact on the mechanical characteristics
- Case studies regarding applications of AM produced parts in the fields of mechanical and civil constructions, aerospace, automotive and biomechanics

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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