

Special Issue

Innovations and Challenges in Additive Manufacturing Technologies

Message from the Guest Editors

Additive manufacturing (AM) has emerged as a transformative technology with vast potential to revolutionize a wide range of fields within engineering and materials science. Its flexibility and design freedom make it ideal for diverse applications, including tooling and the production of parts, biomedical implants and devices, and aerospace components. AM enables the creation of complex geometries and customized structures that would be challenging or impossible to produce using traditional manufacturing methods. This Special Issue of *Machines* aims to present recent advancements in AM, with a particular focus on both experimental and analytical research that targets the achievement of desired material properties and structural geometries. We encourage studies that investigate the influence of process parameters, modeling approaches for predicting outcomes, and strategies for optimizing printing conditions. In addition to technical process improvements, we welcome contributions exploring novel or unconventional applications of AM technologies.

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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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