Special Issue

Applications of Additive Manufacturing Technologies

Message from the Guest Editors

Additive manufacturing (AM), also known as 3D printing, is an emerging rapid prototyping technology favored by many fields such as biomedicine, aerospace, and smart devices. Based on a computer-designed 3D model, additive manufacturing builds materials layer by layer through heating and melting, laser sintering, or light curing to create the desired solid 3D part. Compared to traditional processing methods, additive manufacturing eliminates the need for molds and cumbersome machining processes, and can be used to design and produce complex structures on demand that are difficult to achieve with traditional processing methods. This Special Issue aims to collect new insights regarding the application of additive manufacturing technologies in advanced fields such as sensors and robotics, focusing on modeling, material and structural design, fabrication, and control in practical applications.

- additive manufacturing
- 3D printing
- deposition molding (FDM)
- direct ink writing (DIW)
- stereolithography (SLA)
- digital light processing (DLP)
- selective laser sintering (SLS)

Guest Editors

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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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