

Special Issue

Application of Artificial Intelligence Techniques in Additive Manufacturing

Message from the Guest Editors

Additive manufacturing (AM), commonly known as 3D printing, is a set of technologies that build 3D objects directly from 3D models via adding materials layer upon layer. Compared with traditional manufacturing technologies, AM provides a high degree of freedom for designing and obtaining complex geometric shapes without any additional cost. Currently, the application of artificial intelligence techniques in AM is gaining importance and popularity with academia. This has triggered a series of interesting research topics, such as AM data and knowledge representation, topology optimization for AM, intelligent design, process planning and quality inspection for AM, AM product quality prediction, and AM process monitoring. The aim of this Special Issue is to collect recent methods regarding the application of artificial intelligence techniques in AM.

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