

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.

Guest Editors

Dr. Yuchu Qin

EPSRC Future Advanced Metrology Hub, Centre for Precision Technologies, School of Computing and Engineering, University of Huddersfield, Huddersfield HD1 3DH, UK

Dr. Peizhi Shi

EPSRC Future Advanced Metrology Hub, Centre for Precision Technologies, School of Computing and Engineering, University of Huddersfield, Huddersfield HD1 3DH, UK

Deadline for manuscript submissions

closed (25 June 2023)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/122838

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))