

Special Issue

Machine Learning in Micro Fabrication

Message from the Guest Editors

With the rapid advancement of advanced manufacturing (AM) technologies, it is possible to rapidly fabricate complex physical objects in various scales. To monitor and control the manufacturing processes, there are different internal and external sensors producing numerous data in regard to the conditions of the machines. In recent decades, machine learning (ML) has been proved a suitable tool for analyzing large and complex datasets. Therefore, it is unsurprising that ML methods have been introduced for process planning and control. Smart manufacturing, i.e., Industry 4.0, refers to the manufacturing paradigm that makes use of sensors, cloud computing, machine learning, additive manufacturing, and/or advanced robotics to improve manufacturing productivity and cost efficiency. ML serves an important and necessary role in AM systems. Fundamental studies in ML will lead us to create more innovations in smart manufacturing and expand the manufacturing sectors. The objective of this Special Issue is to collect cutting-edge research works focused on the development of ML-based methods for microfabrication.

Guest Editors

Dr. Tsz Ho Kwok

Dr. Xiangjia Li

Dr. Jida Huang

Deadline for manuscript submissions

closed (31 March 2022)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/89131

Micromachines
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 1.8 days (median values for papers published in this journal in the second half of 2024).