

Special Issue

Deep Learning in Image Analysis and Pattern Recognition, 2nd Edition

Message from the Guest Editors

In the past decade, deep learning has demonstrated state-of-the-art performances in many image processing tasks. Despite remarkable deep learning-related achievements in computer vision, many challenging tasks and scenarios that require novel methods and theories remain. In addition, although deep learning achievements in computer vision have been successfully applied to many areas, greater efforts should be made to ensure that this technology can better serve humans in the future. This Special Issue requests papers detailing new advances in deep learning methods or applications in image analysis and pattern recognition. Topics of interest include, but are not limited to, the following:

- Image classification;
- Object detection;
- Object tracking;
- Image segmentation;
- Convolutional neural networks;
- Diffusion model;
- Image captioning;
- Image clustering;
- Representation learning for images;
- Medical image processing;
- Remote sensing image processing;
- 3D image building.

Guest Editors

Dr. Xianzhi Wang

School of Computer Science, University of Technology Sydney, Sydney 2007, Australia

Prof. Dr. Guoqing Chao

School of Computer Science and Technology, Harbin Institute of Technology, Weihai 264209, China

Deadline for manuscript submissions

closed (26 November 2025)



Machine Learning and Knowledge Extraction

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 9.9



mdpi.com/si/225268

*Machine Learning and
Knowledge Extraction*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
make@mdpi.com

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





Machine Learning and Knowledge Extraction

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 9.9



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Andreas Holzinger

1. Human-Centered AI Laboratory, Institute of Forest Engineering,
Department of Forest and Soil Sciences, University of Natural
Resources and Life Sciences, 1190 Vienna, Austria

2. xAI Laboratory, Alberta Machine Intelligence Institute, University of
Alberta, Edmonton, AB T5J 3B1, Canada

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), dblp, and
other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 25.5 days after
submission; acceptance to publication is undertaken in 3.4
days (median values for papers published in this journal in
the first half of 2025).

Journal Rank:

JCR - Q1 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Engineering (miscellaneous))