

Special Issue

Machine Learning in Image Processing and Pattern Recognition: Modern Methods and Applications

Message from the Guest Editors

Machine learning research is continuously progressing at an amazing speed for a scientific discipline. The purpose of this Special Issue is to stimulate a systematic incursion in the modern methods of machine learning for image processing and pattern recognition and to correlate them with practical applications. Of particular interest are papers trying to connect the algebraic topology methods with machine learning models for a better study and evaluation of datasets and their organization, papers concerning the efficient training of neural networks using bio-inspired heuristics, papers involving explainable machine learning perspectives or papers dealing with novel incremental learning algorithms. From the application side, we welcome papers introducing novel machine learning models for vision, bioinformatics, medical image processing and diagnosis or automatic video analysis and scene understanding. Of course, we are not limiting ourselves to only these topics and any theoretically solid contribution to the field of machine learning related to image processing or pattern recognition will be considered.

Guest Editors

Dr. Darian M. Onchis

Dr. Dan Pescaru

Dr. Flavia Micota

Prof. Dr. Pedro Real

Dr. Codruta Istin

Deadline for manuscript submissions

closed (31 January 2022)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/75087

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

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).