# Emerging Topics in Machine Learning, Image Processing and Pattern Recognition for AI-Related Applications

Guest Editors:

**Prof. Dr. Yiu-ming Cheung**
Department of Computer Science, Hong Kong Baptist University, Kowloon Tong, Hong Kong, China

**Prof. Dr. Yuping Wang**
School of Computer Science and Technology, Xidian University, Xi'an 710071, China

**Prof. Dr. Xin Liu**
Department of Computer Science, Huaqiao University, Xiamen 361021, China

Deadline for manuscript submissions:
**closed (31 December 2023)**

## Message from the Guest Editors

Dear Colleagues,

Recent advances in the fields of machine learning, image processing and pattern recognition have sparked a rapid revolution in the field of artificial intelligence (AI) .

The purpose of this Special Issue is to collate the latest methodologies, models, algorithms and findings, as well as to discuss the current challenges of machine learning, image processing and pattern recognition solutions for a broad range of AI-related applications. Topics include but are not limited to:

- Deep learning;
- Interpretable machine learning algorithms;
- Statistical learning theory for data mining;
- Semi-supervised, weakly supervised and unsupervised learning systems;
- Multi-modal data analysis;
- Optimization of sustainable computational intelligence;
- Innovative methodology related to image processing and computer vision;
- Mathematic solutions for pattern recognition;
- Real-time pattern recognition applications;
- Secure AI.

mdpi.com/si/122199

# Special Issue

## Editor-in-Chief

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

## 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.

## 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), RePEc, and other databases.
**Journal Rank:** JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics )

## Contact Us