

# Special Issue

## Mathematical Methods for Pattern Recognition

### Message from the Guest Editors

Pattern recognition is the process of processing and analyzing various forms of information that characterizes things or phenomena in order to describe, identify, classify, and explain them, and is an important part of information science and artificial intelligence. Deep learning is the ruling approach in the field of pattern recognition, achieving breakthroughs in the field. However, for advanced perception, some progress has been achieved, but still its implementation has not been improved upon till today. Therefore, combining mathematical methods for pattern recognition and understanding and using the results for decision planning is a promising direction requiring intensive future research. This Special Issue accepts high-quality, original research papers and reviews describing breakthroughs in pattern recognition through novel mathematical theories or methods, as well as those using new methods to obtain better practical applications. Papers detailing interesting/significant new applications of machine learning, deep learning, and artificial intelligence are also welcome.

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### Guest Editors

Dr. Chengyou Wang

Dr. Xiao Zhou

Prof. Dr. Zhaobin Wang

Dr. Yingchun Guo

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### Deadline for manuscript submissions

closed (20 April 2025)



# Mathematics

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## 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.

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### Editor-in-Chief

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