

# Special Issue

## Advances in Computer Vision and Machine Learning

### Message from the Guest Editors

Computer vision focuses on the theories and practices that give rise to semantically meaningful interpretations of the visual world. Mathematical models and tools can provide enormous opportunities for developing intelligent algorithms that extract useful information from visual data. In recent years, a number of emerging machine learning techniques have been applied in visual perception tasks such as camera imaging geometry, camera calibration, image stabilization, multiview geometry, feature learning, image classification, and object recognition and tracking. This Special Issue focuses on recent advances in computer vision and machine learning. The topics of interest include, but are not limited to, the following:

- Pattern recognition and machine learning for computer vision;
- Feature learning for computer vision;
- Self-supervised/weakly supervised/unsupervised learning;
- Image processing and analysis;
- Deep neural networks in computer vision;
- Graph neural networks;
- Optimization method for machine learning;
- Evolutionary computation and optimization problems;
- Emerging applications.

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### Guest Editors

Prof. Dr. Xiangtao Zheng

Prof. Dr. Jinchang Ren

Prof. Dr. Ling Wang

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### Deadline for manuscript submissions

closed (30 September 2023)



## Mathematics

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### 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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