

## Special Issue

# Machine Learning Meets Large-Scale Model: Current Trends and Future Challenges

### Message from the Guest Editors

Pattern recognition and classification are fundamental tasks in machine learning and computer vision. Since supervised learning, semi-supervised learning, and ensemble methods are the main approaches of machine learning, it is necessary to explore their performance in differentiated scenarios and solve challenges regarding their practical application. Topics of interest include, but are not limited to:

Design of novel classifiers (such as deep neural networks, attention mechanisms, capsule networks, etc.);

Few-shot learning;  
Explainable supervisory models;  
Multimodal/multilabel classification;  
Robust classification methods (adversarial attack defense, noisy label learning);

Graph-based semi-supervised learning;  
The combination of active learning and semi-supervised learning;

Domain adaptation and transfer learning;  
Time series data classification;

The application of contrastive learning in semi-supervised learning;

Classification methods for specific scenarios such as biomedicine, remote sensing, etc.

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### Guest Editors

Dr. Zhuang Yang

Prof. Dr. Sai Zou

Dr. Yanqun Tang

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### Deadline for manuscript submissions

15 March 2026



## Electronics

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*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

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