Special Issue

Learning-Based Object and Pattern Recognition

Message from the Guest Editors

Object recognition plays an important role in various real-world applications, including autonomous driving, intelligent visual surveillance, etc. Recent years have witnessed the rapid progress of deep neural networks on learning-based object recognition. However, there is still a large room to design more advanced techniques for object recognition. In addition, it remains non-trivial for practitioners to explore how to apply existing works to more practical applications. This special issue seeks submissions about the latest learning-based object and pattern recognition models, methodologies, and applications. It targets both academic researchers and industrial practitioners from computer vision and machine learning communities. Topics of interest include, but are not limited to:

- Object recognition
- Active learning/Multi-task learning for object recognition
- Deep learning/Meta-learning/Online learning for object recognition
- Model compression for object recognition
- Reinforcement learning for object recognition
- Self-supervised learning/Unsupervised learning for object recognition
- Graph neural network for object recognition

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Deadline for manuscript submissions

closed (20 August 2023)

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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