

Special Issue

Deep Learning in Image Analysis and Pattern Recognition, 2nd Edition

Message from the Guest Editors

In the past decade, deep learning has demonstrated state-of-the-art performances in many image processing tasks. Despite remarkable deep learning-related achievements in computer vision, many challenging tasks and scenarios that require novel methods and theories remain. In addition, although deep learning achievements in computer vision have been successfully applied to many areas, greater efforts should be made to ensure that this technology can better serve humans in the future. This Special Issue requests papers detailing new advances in deep learning methods or applications in image analysis and pattern recognition. Topics of interest include, but are not limited to, the following:

- Image classification;
- Object detection;
- Object tracking;
- Image segmentation;
- Convolutional neural networks;
- Diffusion model;
- Image captioning;
- Image clustering;
- Representation learning for images;
- Medical image processing;
- Remote sensing image processing;
- 3D image building.

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