Special Issue

Computer Vision and Machine Learning in Medical Applications

Message from the Guest Editor

Recently, computer vision and machine learning have spread to almost all fields. In medical applications, an immense amount of data is being generated by distributed sensors and cameras, as well as multi-modal digital health platforms that support audio, video, image, and text. This Special Issue focuses on computer vision and machine learning techniques for medical applications, including but not limited to:

- Intelligent medical and health systems;
- Novel theories and methods of deep learning for medical imaging;
- Drug discovery with deep learning;
- Pandemic management with machine learning;
- Health and medical behavior analytics with deep learning;
- Summarization of clinical information;
- Multimodal medical image analysis;
- Data mining for medical information;
- Organ and lesion segmentation/detection;
- Machine learning for image classification with MRI/CT/PET;
- Medical image enhancement/denoising;
- Predicting clinical outcomes from medical data;
- Anomaly detection in medical images or data;
- Active learning and life-long learning in medical computer vision;
- User/patient psychometric modeling from video, image, audio, and text.

Guest Editor

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Message from the Editor-in-Chief

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Editor-in-Chief

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