Special Issue

Deep Learning for Information Fusion and Pattern Recognition

Message from the Guest Editors

There are a large amount of data from different types of sensors, for instance, multispectral Electro-Optical/Infrared (EO/IR) and computed tomography/magnetic resonance (CT/MR) images, among others. How to take advantage of multimodal data for object detection and pattern recognition is an active field of research. Information fusion (IF) is a venue to enhance the performance of pattern classification, and Deep learning (DL) technologies, including convolutional neural networks (CNNs), are powerful tools to improve object detection, segmentation, and recognition. It is viable to combine DL and IF to boost the overall performance of pattern classification and target recognition. Such combinations of powerful techniques may exploit the deeply hidden features from the multimodal, spatial or temporal data. Example applications may include (but are not limited to) face recognition, cancer detection, image fusion, object detection, and target recognition.

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