Image and Video Processing and Retrieval Based on Machine Learning and Deep Learning

Message from the Guest Editors

Image and video processing and retrieval using machine learning and deep learning constitutes a rapidly growing field of research with numerous applications in areas such as multimedia search, video surveillance, medical imaging, content-based retrieval, and computer vision. Image and video retrieval involves the automatic searching and categorization of large collections of visual media. Deep learning methods, including convolutional neural networks (CNNs), autoencoders, transformers, and generative adversarial networks (GANs) have proven to be effective in image and video processing and retrieval tasks. These techniques can recognize, classify, and generate visual content with high levels of accuracy, leading to the development of powerful algorithms. As research continues in this area, the development of new algorithms and techniques is expected to result in more accurate, efficient, and reliable processing and retrieval systems for visual media, revolutionizing the way we interact with and analyze visual content. This Special Issue aims to present recent research work on image processing, video processing, as well on retrieval applications.

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