Special Issue

Recent Techniques in Image Feature Extraction

Message from the Guest Editors

In the modern era of deep learning and foundation models, feature extraction remains a cornerstone of computer vision and image processing, facilitating tasks such as object detection, face recognition, and transfer learning for semantic segmentation and depth prediction. By transforming raw image data into representations with meaningful semantics, it simplifies data handling, improves model accuracy, and filters out noise. Feature extraction ensures consistency under varying conditions, supporting efficient image retrieval and applications like autonomous driving and medical diagnostics. Self-supervised large-scale feature extraction techniques are ubiquitous, enabling tasks to be tackled in few-shot or zero-shot regimes. Handling high-dimensional data and ensuring robustness to variations in illumination, scale, and occlusion are major hurdles. Integrating traditional feature extraction with deep learning approaches remains complicated. As models become more complex, understanding and interpreting the extracted features and their impact on the final decision process becomes essential, especially in critical applications that rely on trustworthy and explainable systems.

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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