Special Issue

Deep Learning Methods and Computational Techniques for Image Processing with Applications

Message from the Guest Editors

Image processing applications refer to various practical applications that utilize computer algorithms and technologies to analyze, process, and enhance images. In the context of big data and large-scale models, deep learning has achieved remarkable success, becoming a cornerstone model in this field. This Special Issue aims to compile the latest comprehensive research in the domain of deep learning-based image processing applications. Specifically, this Special Issue focuses on both low- and high-level tasks in image analysis and computer vision. Encompassing multi-level research, this Special Issue is expected to bring about comprehensive advancements in image analysis and its applications. Topics of interest include, but are not limited to, the following: 1. general image analysis based on deep learning, such as classification and super-resolution; 2. remote sensing image analysis based on deep learning, such as pan-sharpening and remote sensing image classification; 3. multi-view image analysis and multi-modal image analysis; and 4. the integration of traditional methods with deep learning for image analysis and applications.

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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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