Special Issue

Hexagonal Image Processing in Computer Vision

Message from the Guest Editors

Hexagonal image processing has emerged as an innovative yet nascent methodology in computer vision that is leveraging the geometric properties of hexagonal grids over traditional square pixel arrays. This Special Issue explores the latest advancements and applications of hexagonal image processing across various domains of computer vision. Special emphasis is placed on the investigation and implementation of hexagonal structures in image generation and acquisition, as well as image enhancement and analysis, demonstrating improvements while also highlighting the challenges in tasks related to computer vision, pattern recognition, as well as machine learning and deep learning. Additional focus is given to contributions that systematically evaluate and compare traditional algorithms and models with their hexagonal counterparts in terms of accuracy and computational performance. Given the general lack of publicly available hexagonal datasets, contributions that describe hexagonal datasets, their properties, and generation processes in detail are especially welcome. We look forward to your valuable contributions and findings.

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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.

Editor-in-Chief

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