Special Issue

Computer Vision and Image Processing: Advances and Challenges

Message from the Guest Editors

We are now in an era in which computer vision and image processing are fundamentally transforming how machines perceive and understand the visual world. Driven by advances in artificial intelligence, enhanced sensor capabilities, and growing computational power, these technologies now enable systems to interpret complex scenes, analyze intricate patterns, and generate realistic imagery with remarkable accuracy. They form the foundation for a wide spectrum of critical applications, from autonomous driving and medical imaging to surveillance, augmented reality, and multimedia content creation. Yet, this rapid evolution also presents substantial challenges, including ensuring robustness in uncontrolled environments, developing interpretable and trustworthy models, managing large-scale visual data efficiently, and addressing the ethical and privacy concerns inherent in pervasive visual analysis.

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About the Journal

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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