



Advanced Machine Learning Methods for Image Processing, Perception and Understanding

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Deadline for manuscript
submissions:

closed (10 October 2023)

Message from the Guest Editors

Image processing, perception and understanding have underpinned much of recent progress in a wide range of computer vision applications, including space exploration, military surveillance, environmental protection, precise agriculture, intelligence manufacturing, intelligent transportation etc. However, due the complicated imaging environments as well as various application requirements in practice, image processing, perception and understanding are still confronted with many challenges.

This Special Issue calls for innovative works that explore recent advances, prospects, and challenges in machine learning methods or applications to produce high-quality images; as well as accelerate the inference speed, especially on embedded devices with limited computational resources. It is noteworthy that in this Special Issue the keyword ‘image’ must be understood in a wide sense: optical imagery, infrared imagery, multispectral imagery, hyperspectral imagery, SAR imagery, medical imagery, and so on. The purpose is to provide a platform to enhance interdisciplinary research and collaborations, and to share the most innovative ideas in various related fields.





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Message from the Editor-in-Chief

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