Journal of Imaging

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Edge Detection Evaluation

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Deadline for manuscript submissions:
closed (1 September 2021)

Message from the Guest Editors

From the 1980s onward, edge detection has been an important research field in digital image processing, and also one of the fundamental steps in computer vision techniques. The points in digital images where brightness/color change contain essential information for image analysis and computer vision. For this reason, edge detection remains a crucial stage in numerous image processing applications. Since edges are considered a set of curved lines formed by the points of sharp brightness/color change, they can be detected through mathematical methods often involving numerical derivation.

This Special Issue aims to gather innovative research on edge detection and especially on edge detection evaluation in image segmentation techniques. We welcome submissions including but not limited to the following topics: approaches for edge detection; threshold determination; edge detection operators; image filtering for edge detection; shape similarity measures; gradient orientation evaluation; edge model; etc.

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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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