# **Special Issue**

## Image Segmentation: Trends and Challenges

#### Message from the Guest Editor

Image segmentation is a subfield of computer vision that focuses on partitioning an image into areas corresponding to different semantic classes. Image segmentation techniques vary, depending on how input image areas are classified and labeled. They can be broadly categorized into the areas of semantic segmentation, instance segmentation, and panoptic segmentation. The development of deep learning techniques has seen the emergence of a variety of techniques that address the aforementioned computer vision tasks. The developed techniques have achieved improved performance, compared to the previous state of the art, which has raised expectations for modern computer vision. Novel deep learning concepts and networks appear almost daily, and they have thus attracted significant attention from scientists worldwide. The aim of this Special Issue is to present novel approaches in the field of image segmentation that surpass the current state of the art and introduce novel concepts to the field.

#### Guest Editor

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#### Deadline for manuscript submissions

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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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