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Advances in Image Segmentation: Theory and Applications

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Message from the Guest Editors

Image segmentation has become a major topic of interest in various domains, including medical imaging, environmental remote sensing field, land cover applications, etc. In medical image analysis, segmentation can be defined as a method allowing, e.g., the precise shape of the potential lesions to be determined or the shape of the organ to be determined. Very different imaging techniques are available for medical use today (for example, ultrasonography (USG), computed tomography (CT), magnetic resonance imaging (MR)), while segmentation methods should be as closely matched to source images processed as possible.

This Special Issue aims to publish original papers, as well as review articles addressing emerging trends in image segmentation. The main topics include but are not limited to the following:

- Biomedical Image Segmentation (different modalities, e.g., CT, MRI, USG);
- SAR image segmentation;
- Segmentation methods for multisensor data analysis;
- Segmentation methods for time-series data analysis (e.g., agricultural crop areas, urban areas growing or drought/flood monitoring);
- Machine learning;
- Deep learning;
- Review of segmentation methods



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Special Issue



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Message from the Editor-in-Chief

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