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Image Segmentation

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Deadline for manuscript submissions:
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Message from the Guest Editors

Image segmentation can be divided into semantic segmentation, instance segmentation, and panoptic segmentation, which draws both together. Semantic segmentation is the operation of labeling all pixels by classifying them into meaningful units such as people, cups, and airplanes. Topics of interests include, but are not limited to:

- Image segmentations: semantic segmentation, instance segmentation, panoptic segmentation;
- Image segmentation methods: legacy methods (histogram-based bundling, region growing, k-means clustering, watershed methods, active contours, graph cuts, cMRF, sparsity-based methods) and deep learning methods (encoder–decoder-based model, multiscale and pyramid network, R-CNN, dilated convolutional model, recurrent neural network, generative adversarial network, attention-based model, graph-based model);
- Image segmentation appllications: medical image segmentation, autonomous vechicles, emotion recognition, image understanding and captioning, augented reality and meta-verse, gesture and behavior recognition, etc.;
- Segmentation image datasets and performance;
- 2D, 3D segmentation and devices;
- Survey for image segmentation.

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Message from the Editor-in-Chief

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