

Special Issue

Image Segmentation

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 applications: medical image segmentation, autonomous vehicles, emotion recognition, image understanding and captioning, augmented reality and meta-verse, gesture and behavior recognition, etc.;
- Segmentation image datasets and performance;
- 2D, 3D segmentation and devices;
- Survey for image segmentation.

Guest Editors

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Deadline for manuscript submissions

closed (17 July 2024)



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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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