

Special Issue

Video Object Segmentation: From Semi-supervised to Unsupervised

Message from the Guest Editors

So far, the semi-supervised learning method based on deep learning has played a dominant role in the field of video object segmentation. However, exploring this task in a weakly supervised or unsupervised manner is more attractive not only because these can reduce the burden of manual annotation, but also, by exploring prior information, one can gain a deeper understanding of the essence of video object segmentation tasks. The scope of this topic includes but is not limited to: Video object detection, identification, recognition, tracking, and segmentation.

Video analysis and tracking.

Image and video enhancement algorithms to improve the quality of video object tracking.

Computational photography and imaging for advanced object detection and tracking.

Depth estimation and three-dimensional reconstruction for augmented reality (AR) and/or advanced driver assistance systems (ADAS).

Learning data representation from video based on supervised, unsupervised, and semi-supervised learning.

Dataset and performance evaluation, person re-identification, vehicle re-identification.

Human behavior detection, human pose estimation, and tracking.

Video object surveillance and monitoring.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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