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IET Computer Vision

Call for Papers

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Editor-in-Chief: Professor Majid Mirmehdi, University of Bristol, UK

Special Issue on:

Multi-view Representation Learning for Computer Vision

Objects recognition and scene analysis in single-view images may face difficulties such as occlusion and incomplete information, while multi-view learning can address this limitation. When an object or scene is observed from multiple views, information on target objects can be significantly enriched to improve the performance of computer vision tasks.

For this reason, multi-view has become one of the important forms of data representation, which leads to the emergence of new research topics on complete or incomplete multi-view learning. Multi-view learning enables the use of multi-source information, nevertheless, the heterogeneous characteristics of data make it difficult to reliably associate information from different views, especially in complex environments. It remains a challenging task to make effective use of the consistent and complementary information between different complete views and to enhance the completeness of potential representation.

The purpose of this special issue is to collect high-quality articles on the recent development and trend of multi-view representation learning in computer vision, publish new ideas, theories, solutions and insights on this topic, and showcase their applications.

Topics of interest include, but are not limited to:

- Multi-view data collection and image processing
- Advanced deep learning techniques for multi-view data
- Multi-view 3D reconstruction and Multi-view 3D recognition
- Multi-view recognition applications, such as person re-identification, action recognition, face recognition, human pose estimation, gait recognition and object recognition etc.
- Feature learning and extraction from multi-view data
- Multi-task/transfer learning for multi-view data understanding
- Multimodal learning and understanding
- Self-supervised learning, Semi-supervised learning and unsupervised learning for Multi-view data

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