

Special Issue

Supervised Learning Applications of Action Recognition and Action Prediction

Message from the Guest Editor

Human action recognition and prediction are core in computer vision, relevant to video surveillance, healthcare, HCI, robotics, sports analytics, and autonomous driving. Deep learning (CNNs, RNNs, GCNs, Transformers) has advanced action recognition/prediction from video, skeleton, and multimodal data. Recently, LLMs/MLLMs have advanced video understanding, enabling visual reasoning, open-vocabulary action recognition, and instruction-following. This SI collects latest research on supervised learning and LLM/MLLM-driven methods for action recognition/prediction, focusing on foundation models' role in video understanding. Theoretical and practical studies are welcome. Original research and reviews are invited. Key research areas:

- Supervised deep learning for video action recognition/prediction;
- Skeleton/pose-based recognition;
- Temporal action detection, localization, segmentation;
- Early action prediction;
- Multimodal fusion;
- Attention/Transformers for action analysis;
- LLMs/MLLMs for video/action understanding;
- Zero/few-shot, open-vocabulary recognition;
- Video captioning, QA, and video-language alignment;
- LLM-assisted temporal reasoning;
- Applications in autonomous driving, healthcare, sports, HRI.

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