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## Human Activity Analysis From Videos

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### Abstract

The recognition/prediction of human actions from real-time video data streams is a popular challenge, with a wide range of applications, such as visual surveillance, autonomous driving vehicle, entertainment, and video retrieval, etc. Derived from rapid advances in computer vision and machine learning, video analysis tasks have been moving from inferring the present state to predicting the future state. Vision-based action recognition and prediction from videos are such tasks, where action recognition is to infer human actions based upon complete action executions, and action prediction to predict human actions (future state) based upon incomplete action executions. Many attempts have been devoted in the last a few decades in order to build a robust and effective framework for action recognition and prediction. The talk will describe the state-of-the-art action recognition/prediction algorithms, technical difficulties, popular action databases, and promising future directions.

### Biography

*Dr. Hossein Rahmani is currently an Assistant Professor (Lecturer) with the School of Computing and Communications, Lancaster University, UK. He was a Lead Research Fellow in the School of Computer Science and Software Engineering, the University of Western Australia (UWA), Australia for two years before joining Lancaster University. He received the BSc degree in computer software engineering from Isfahan University of Technology, Isfahan, Iran, in 2004, the MS degree in software engineering from Shahid Beheshti University, Tehran, Iran in 2010, and the PhD degree from The University of Western Australia, in 2016. He has published several papers in top conferences and journals such as CVPR, ICCV, ECCV, and the IEEE Transactions on Pattern Analysis and Machine Intelligence. His research interests include computer vision, action recognition, and deep learning.*

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