

Pose estimation

Skeleton-base

Dataset

- NTU RGB+D = Skeleton-Based Action Recognition with Multi-Stream Adaptive Graph Convolutional Networks
- NTU RGB+D120 = Quo Vadis, Skeleton Action Recognition ?
- Kinetics-Skeleton dataset Temporal Extension Module for Skeleton-Based Action Recognition
- J-HMDB =
  - PoTion: Pose MoTion Representation for Action Recognition
  - Make Skeleton-based Action Recognition Model Smaller, Faster and Better
  - Multigrid Predictive Filter Flow for Unsupervised Learning on Videos
  - Relational Autoencoder for Feature Extraction
  - LSTM Pose Machines
- SYSU 3D Semantics-Guided Neural Networks for Efficient Skeleton-Based Human Action Recognition
- SBU On Geometric Features for Skeleton-Based Action Recognition using Multilayer LSTM Networks
- CAD-120 Neural Graph Matching Networks for Fewshot 3D Action Recognition
- Varying-view RGB-D Action-Skeleton A Large-scale Varying-view RGB-D Action Dataset for Arbitrary-view Human Action Recognition
- N-UCLA Semantics-Guided Neural Networks for Efficient Skeleton-Based Human Action Recognition
- UT-Kinect Optimized Skeleton-based Action Recognition via Sparsified Graph Regression
- Florence 3D Spatio-Temporal Graph Convolution for Skeleton Based Action Recognition
- SHREC 2017 track on 3D Hand Gesture Recognition Make Skeleton-based Action Recognition Model Smaller, Faster and Better
- PKU-MMD Making the Invisible Visible: Action Recognition Through Walls and Occlusions
- Gaming 3D Action Recognition Based on Joint Trajectory Maps with Convolutional Neural Networks
- UWA3D View Adaptive Neural Networks for High Performance Skeleton-based Human Action Recognition
- MSR Action3D Bayesian Hierarchical Dynamic Model for Human Action Recognition
- UPenn Action View-Invariant Probabilistic Embedding for Human Pose
- Skeletics-152 Quo Vadis, Skeleton Action Recognition ?
- Skeleton-Mimetics Quo Vadis, Skeleton Action Recognition ?

Paper

- Spatial Temporal Graph Convolutional Networks for Skeleton-Based Action Recognition, 2018
- Make Skeleton-based Action Recognition Model Smaller, Faster and Better, 2019
- Non-Local Graph Convolutional Networks for Skeleton-Based Action Recognition, 2019
- Self-Attention Network for Skeleton-based Human Action Recognition, 2019
- Actional-Structural Graph Convolutional Networks for Skeleton-based Action Recognition,CVPR,2019
- Skeleton-Based Action Recognition with Directed Graph Neural Networks , CVPR, 2019
- Two-Stream Adaptive Graph Convolutional Networks for Skeleton-Based Action Recognition, CVPR, 2019
- Predictively Encoded Graph Convolutional Network for Noise-Robust Skeleton-based Action Recognition, 2020
- Richly Activated Graph Convolutional Network for Robust Skeleton-based Action Recognition, 2020
- PREDICT & CLUSTER: Unsupervised Skeleton Based Action Recognition, CVPR, 2020
- Semantics-Guided Neural Networks for Efficient Skeleton-Based Human Action Recognition, CVPR, 2020
- Skeleton-Based Action Recognition with Shift Graph Convolutional Network, CVPR, 2020
- Decoupling GCN with DropGraph Module for Skeleton-Based Action Recognition, ECCV, 2020

image

dataset

- RMPE: Regional Multi-person Pose Estimation MPII
- Distribution-Aware Coordinate Representation for Human Pose Estimation COCO
- HigherHRNet: Scale-Aware Representation Learning for Bottom-Up Human Pose Estimation COCO
- HigherHRNet: Scale-Aware Representation Learning for Bottom-Up Human Pose Estimation CrowdPose
- DeeperCut: A Deeper, Stronger, and Faster Multi-Person Pose Estimation Model WAF

bottom-up

- Deepercut: A deeper, stronger, and faster multi-person pose estimation model. In ECCV, 2016.
- Associative embedding: End-to-end learning for joint detection and grouping. In NIPS, 2017.
- MultiPoseNet: Fast Multi-Person Pose Estimation using Pose Residual Network, ECCV, 2018
- OpenPose: Realtime Multi-Person 2D Pose Estimation using Part Affinity Fields, CVPR, 2018
- Real-time 2D Multi-Person Pose Estimation on CPU: Lightweight OpenPose, 2018
- PifPaf: Composite Fields for Human Pose Estimation , ICCV, 2019
- HigherHRNet: Scale-Aware Representation Learning for Bottom-Up Human Pose Estimation, CVPR, 2020
- Graph-PCNN: Two Stage Human Pose Estimation with Graph Pose Refinement, ECCV, 2020

paper

top-down

- Differentiable Hierarchical Graph Grouping for Multi-Person Pose Estimation, ECCV, 2020
- Mask R-CNN, CVPR, 2017
- Deep High-Resolution Representation Learning for Human Pose Estimation, CVPR, 2019
- CrowdPose- Efficient Crowded Scenes Pose Estimation and A New Benchmark, CVPR, 2019
- Multi-scale Aggregation R-CNN for 2D Multi-person Pose Estimation, CVPR, 2019, workshop
- The Devil is in the Details: Delving into Unbiased Data Processing for Human Pose Estimation, CVPR, 2020
- Whole-Body Human Pose Estimation in the Wild, ECCV, 2020

else

- Generative Partition Networks for Multi-Person Pose Estimation, ECCV, 2018
- Multi-Person Pose Estimation with Enhanced Channel-wise and Spatial Information, CVPR, 2019
- Distribution-Aware Coordinate Representation for Human Pose Estimation,CVPR,2020
- UniPose: Unified Human Pose Estimation in Single Images and Videos,CVPR,2020
- Learning Delicate Local Representations for Multi-Person Pose Estimation, ECCV, 2020
- Point-Set Anchors for Object Detection, Instance Segmentation and Pose Estimation, ECCV, 2020

video

dataset

- PoseTrack17/18 Learning Temporal Pose Estimation from Sparsely-Labeled Videos
- PoseTrack: Joint Multi-Person Pose Estimation and Tracking Multi-Person PoseTrack

bottom-up

- Multi-person articulated tracking with spatial and temporal embeddings, CVPR, 2019
- Efficient online multi-person 2d pose tracking with recurrent spatio-temporal affinity fields. In CVPR, 2019.

top-down

- Detect-and-Track: Efficient Pose Estimation in Videos. In CVPR, 2018.
- Simple baselines for human pose estimation and tracking. In ECCV, 2018.
- PoseWarper: Learning Temporal Pose Estimation from Sparsely-Labeled Videos, NIPS, 2019
- Combining detection and tracking for human pose estimation in videos, CVPR, 2020
- CorrTrack: Temporal Keypoint Matching and Refinement Network for Pose Estimation and Tracking, ECCV, 2020

else

- Self-supervised Keypoint Correspondences for Multi-Person Pose Estimation and Tracking in Videos, ECCV, 2020
- UniPose: Unified Human Pose Estimation in Single Images and Videos,CVPR,2020