4. Multi-Person PoseTrack Dataset

Comparison with existing datasets

<table>
<thead>
<tr>
<th>Dataset</th>
<th>Video MOTA</th>
<th>PoseTrack</th>
<th>Large-scale tracking</th>
<th>Occlusion</th>
<th>Missed Targets</th>
<th>IDs</th>
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5. Experimental Results

Results: Multi-Person Pose Tracking


- MT - Mostly Tracked targets: Tracked for at least 80% of their life span
- ML - Mostly Lost targets: Tracked for at most 20% of their life span
- IDs - Identity Switches: The total number of identity switches
- FM - Fragments: The total number of times a trajectory is fragmented.
- MOTA - Multiple Object Tracking Accuracy: Combines False Positives, Missed Targets and IDs
- MOTP - Multiple Object Tracking Precision: The misalignment between the ground-truth and predicted body joints

Note that only joints of the same type are matched.

5.1. Source code and dataset is available!

6. Qualitative Results

Results: Multi-Person Pose Estimation

Evaluation: Mean Average Precision (mAP)

Results: Multi-Person Pose Tracking

Evaluation: Clear MOT metrics + Trajectory based measures

6.1. PoseTrack Challenge @ICCV’2017

Key Figures
- 500 video sequences
- 20K frames
- 120K body pose annotations

Three Challenges
- Multi-Person pose estimation in images
- Multi-Person pose estimation in videos
- Multi-Person pose tracking

Online Evaluation
- A centralized server to evaluate on a held-out test set

References