

# **W09 – PoseTrack Challenge: Articulated People Tracking in the Wild**

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The goal of the PoseTrack Workshop was to advance the state of the art in articulated people tracking and visual human analysis. Building on the experience of the previous iteration of this workshop organized at ICCV'17, we introduced an extended version of the PoseTrack benchmark for articulated people tracking. The extended benchmark doubled the amount of annotated data, laying emphasis on common challenging cases for existing methods. In addition to the PoseTrack challenge we also hosted additional challenges on dense pose estimation in collaboration with the authors of the DensePose project and on 3D human pose estimation in collaboration with the Human3.6M team. In the dense pose challenge the participants were required to estimate dense correspondences between people videos and a 3D body shape model. The challenge was based on the data from PoseTrack'17 benchmark that has been annotated with dense pose correspondences. In the 3D Human Pose Estimation Challenge the participants were required to estimate poses of people in 3D. The challenge was based on the Human3.6 benchmark which offered a way to estimate 2d and 3d skeletal joint positions, joint angles, semantic segmentation of body parts, as well as 3d human shape and depth, and in addition provided and evaluated dense correspondences similar to the DensePose challenge.

Finally, the workshop included a diverse program featuring keynote speakers, poster presentations, and a discussion panel to provide a forum for the exchange of ideas among the researchers working in the area of visual human analysis.

The keynote speakers were George Papandreou from Google, Iasonas Kokkinos from University College London and Facebook AI Research, Christian Theobalt from Max Planck Institute for Informatics and Cristian Sminchisescu from Lund University and Google. The planned panel discussion with worlds leading experts on this problem was a fruitful input and source of ideas for all participants. This was the second edition in the PoseTrack series. We as organizers received valuable feedback from users and from the community on how to improve the benchmark.

As to the reviewing process, the pose track challenge received 16 paper submissions. 9 of those submitted extended abstract and deemed valid and others were rejected without review. Of the remaining papers, 4 were accepted (44.4%). The selection process was a combined effort of 2 reviewers, Acceptance decisions were made by the organizers.

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