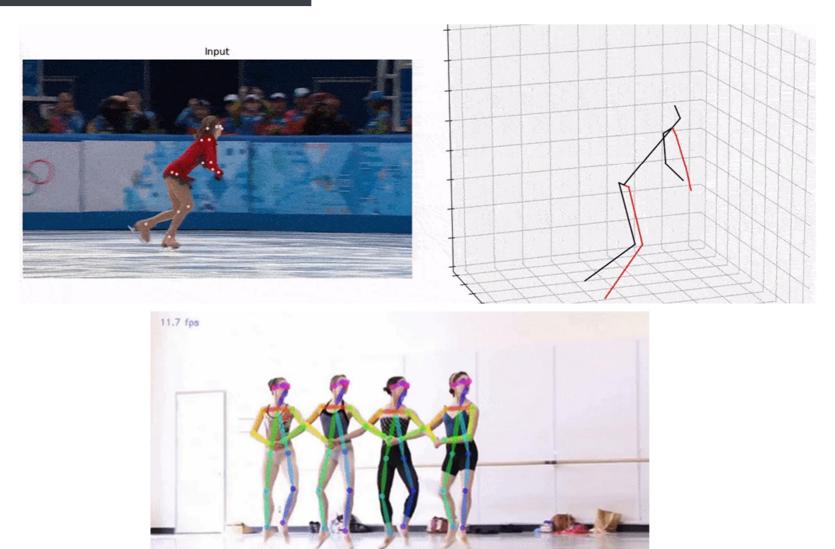
3D Human Pose Estimation with Spatial and Temporal Transformers

Proceedings of the IEEE International Conference on Computer Vision (ICCV 2021)

Human Pose Estimation

Human Pose Estimation

Source: https://www.youtube.com/watch?v=-5Yp-vTol2E

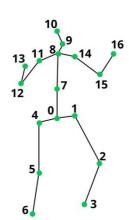


Basic Concepts of HPE



3D KEYPOINTS AND THEIR SPECIFICATION

- 0 Bottom torso
- 1 Left hip
- 2 Left knee
- 3 Left foot
- 4 Right hip
- 5 Right knee6 Right foot
- 7 Center torso
- 8 Upper torso



- 9 Neck base
- 10 Center head
- 11 Right shoulder
- 12 Right elbow
- 13 Right hand
- 14 Left shoulder
- 15 Left elbow
- 16 Left hand



3 Keywords for HPE

Target : Multi-person VS Single-person

Approach: Top-down VS Bottom-up

Goal : 2D pose VS 3D pose

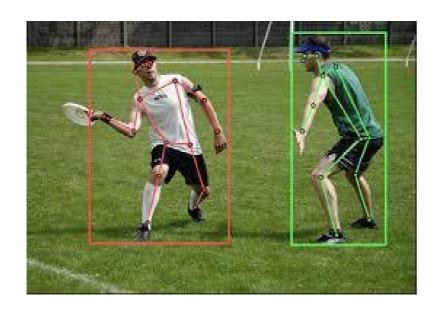


Multi-person VS Single-person





Top-down VS Bottom-up







2D Pose VS 3D Pose

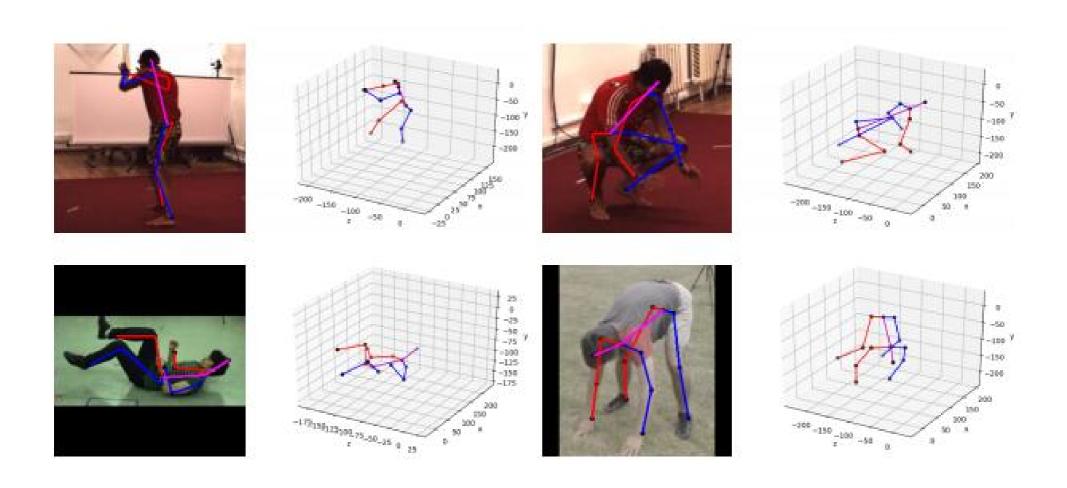
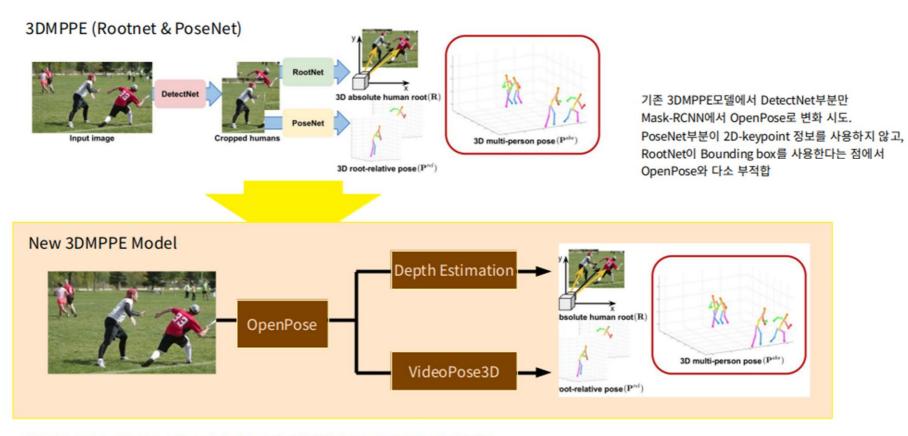


Image 3D Pose



위와 같은 모델을 제안 할 수 있다. 그러나, 다소 수정 사항이 많아 작은 부분부터 구현 필요하다.

Video 3D Pose



