

2.

Pose Estimation

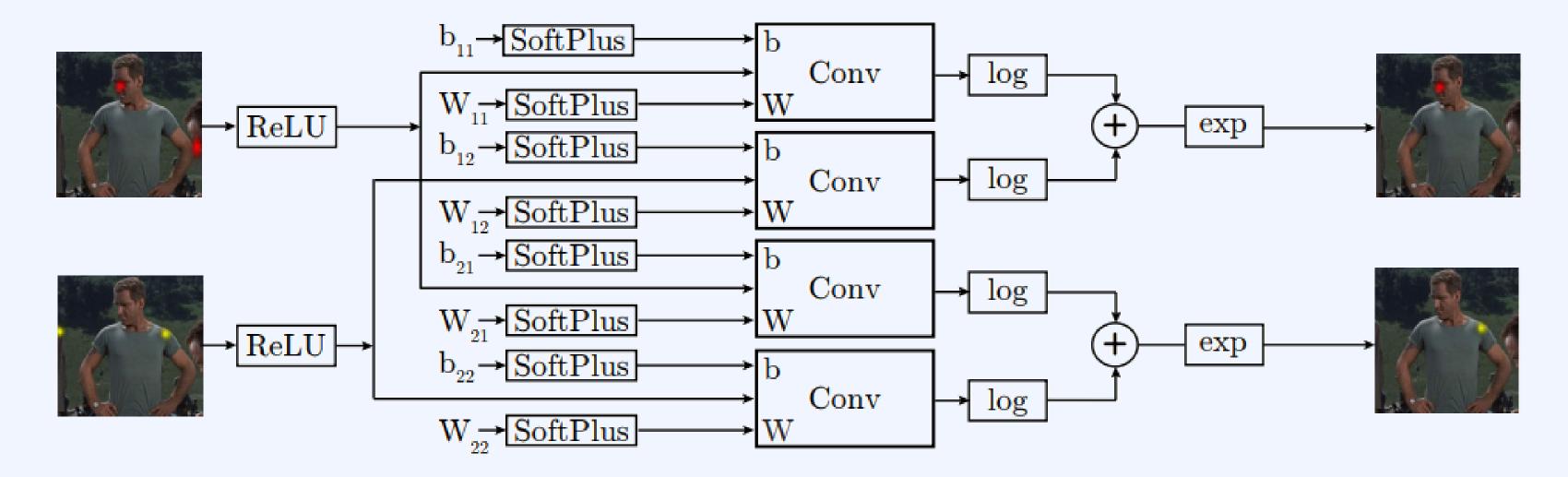
Human Motion Understanding Human Pose Estimation

Human Body Modeling

Human Motion Understanding Human Pose Estimation

J. Tompson et al. Joint Training of a Convolutional Network and a Graphical Model for Human Pose Estimation. NIPS (2014)

Conv-based 2D HPE



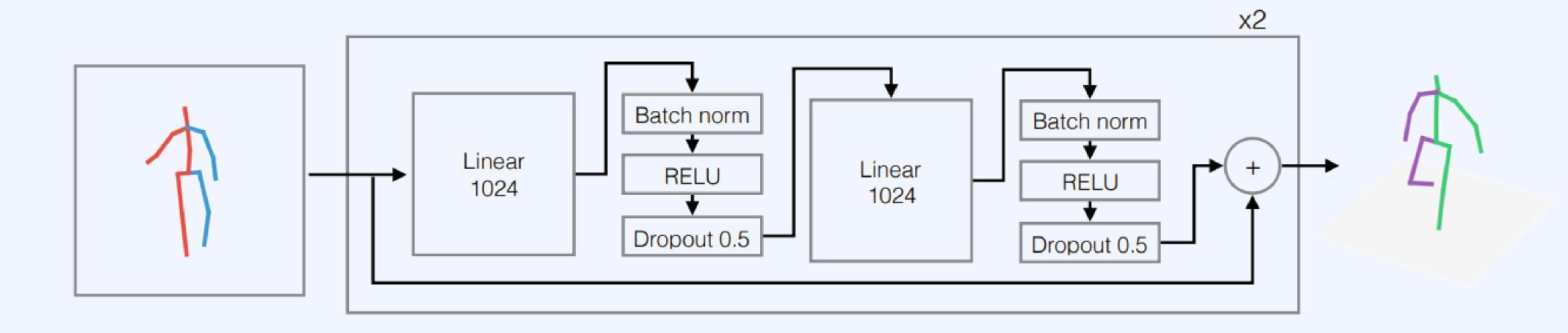


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Pose Estimation

Human Motion Understanding Human Pose Estimation

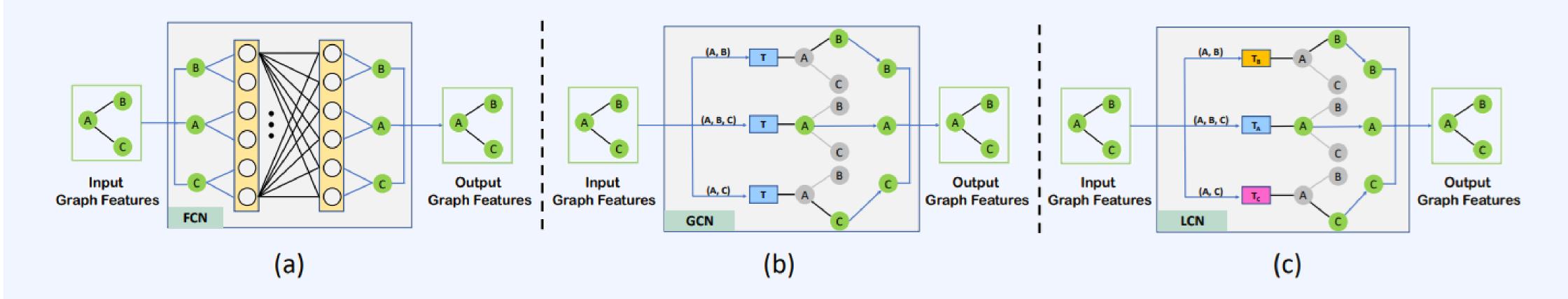
J. Martinez et al. A simple yet effective baseline for 3d human pose estimation. ICCV (2017)

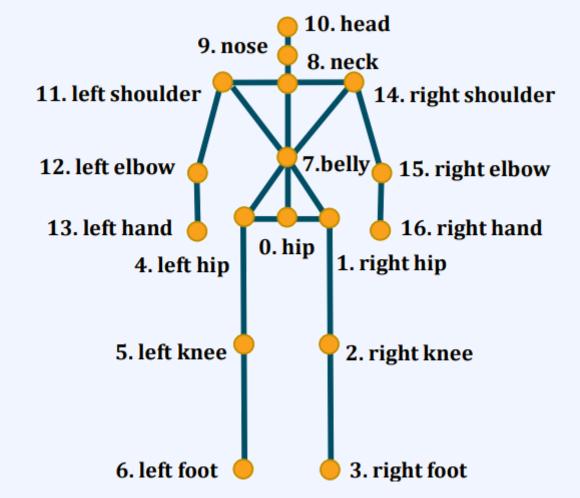


Human Motion Understanding Human Pose Estimation

H. Ci et al. Optimizing Network Structure for 3D Human Pose Estimation. ICCV

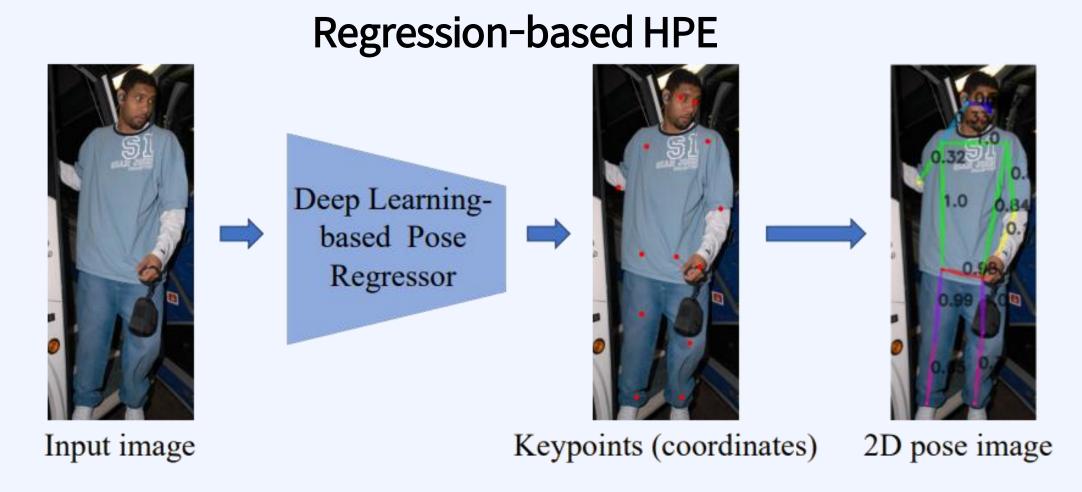
Locally Connected Network (LCN)



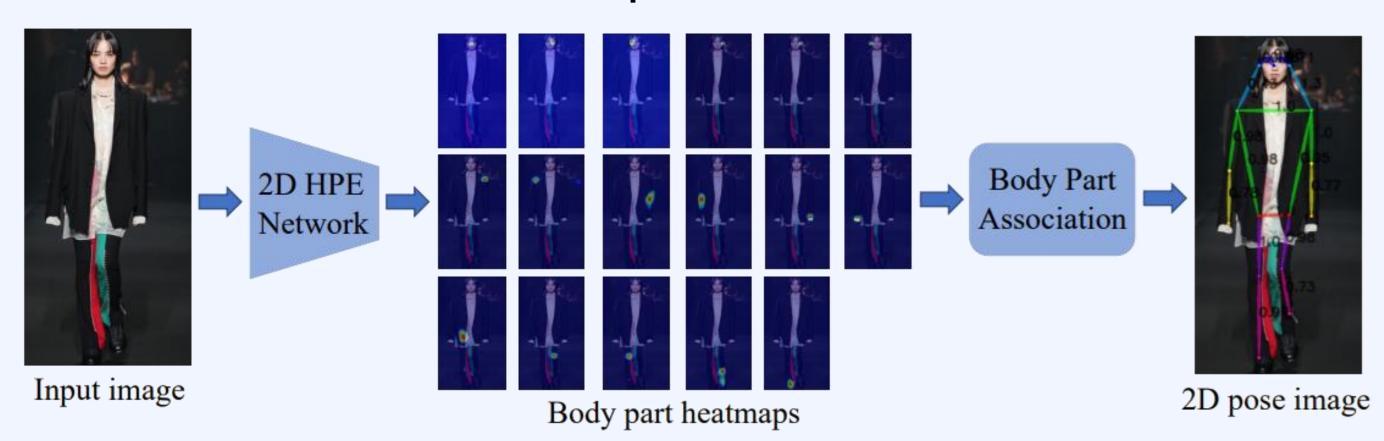


Human Motion Understanding Human Pose Estimation

C. Zheng et al. Deep Learning-Based Human Pose Estimation: A Survey



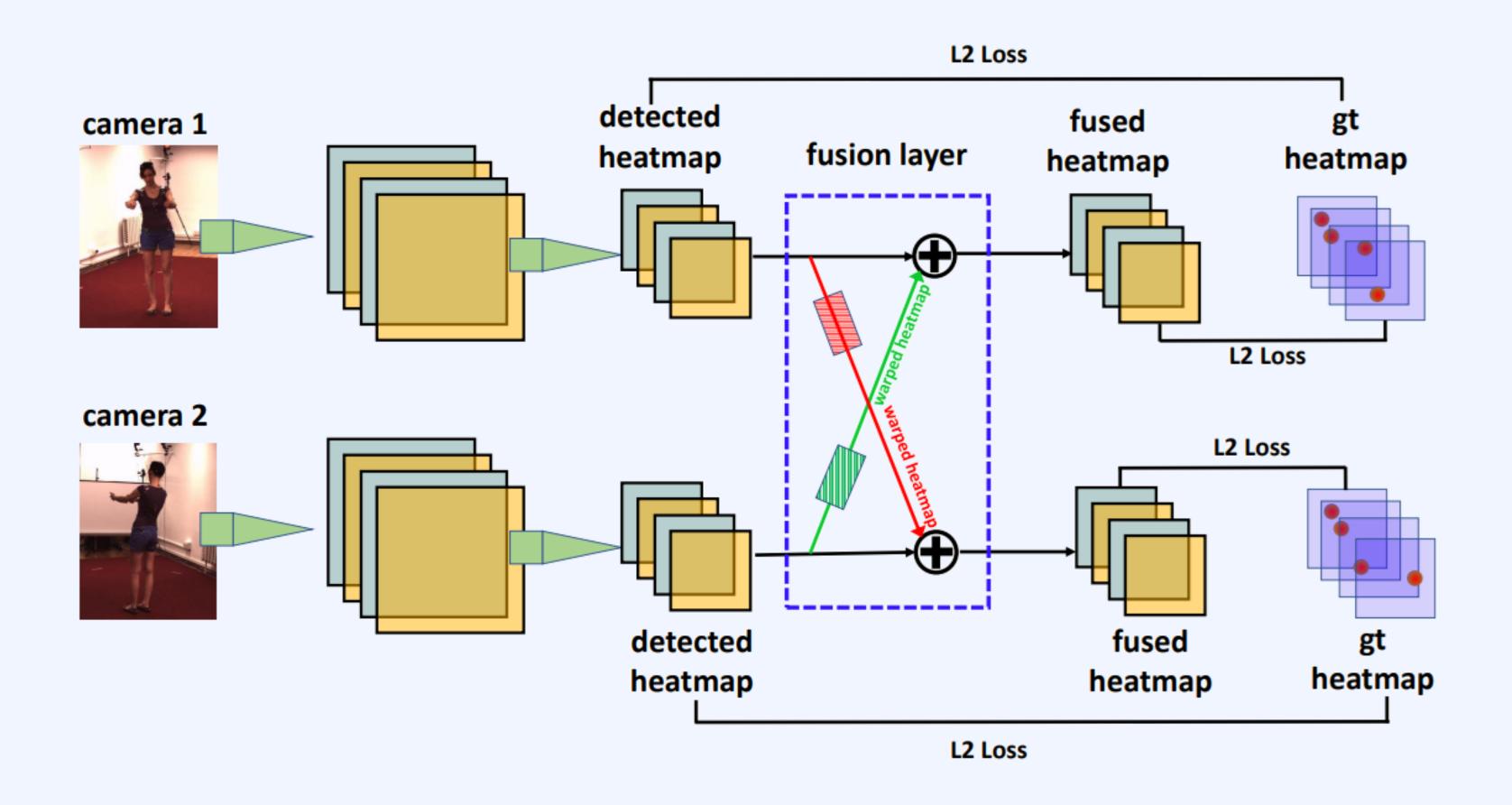
Heatmap-based HPE



Human Motion Understanding Human Pose Estimation

H. Qiu et al. Cross View Fusion for 3D Human Pose Estimation. ICCV

multi-view 2D poses -> 3D pose



Human Motion Understanding Human Pose Estimation

K. Iskakov et al. Learnable Triangulation of Human Pose. ICCV R. Hartley and A. Zisserman. Multiple view geometry in computer vision. Cambridge university press, 2003 2D features [K, 96, 96] 1st camera 2D backbone 3D pose volumetric triangulation [J, 3] soft-argmax V2V aggregated processed volumes volumes [K, 64, 64, 64] [J, 64, 64, 64] 2D backbone Cth camera 2D features [K, 96, 96]

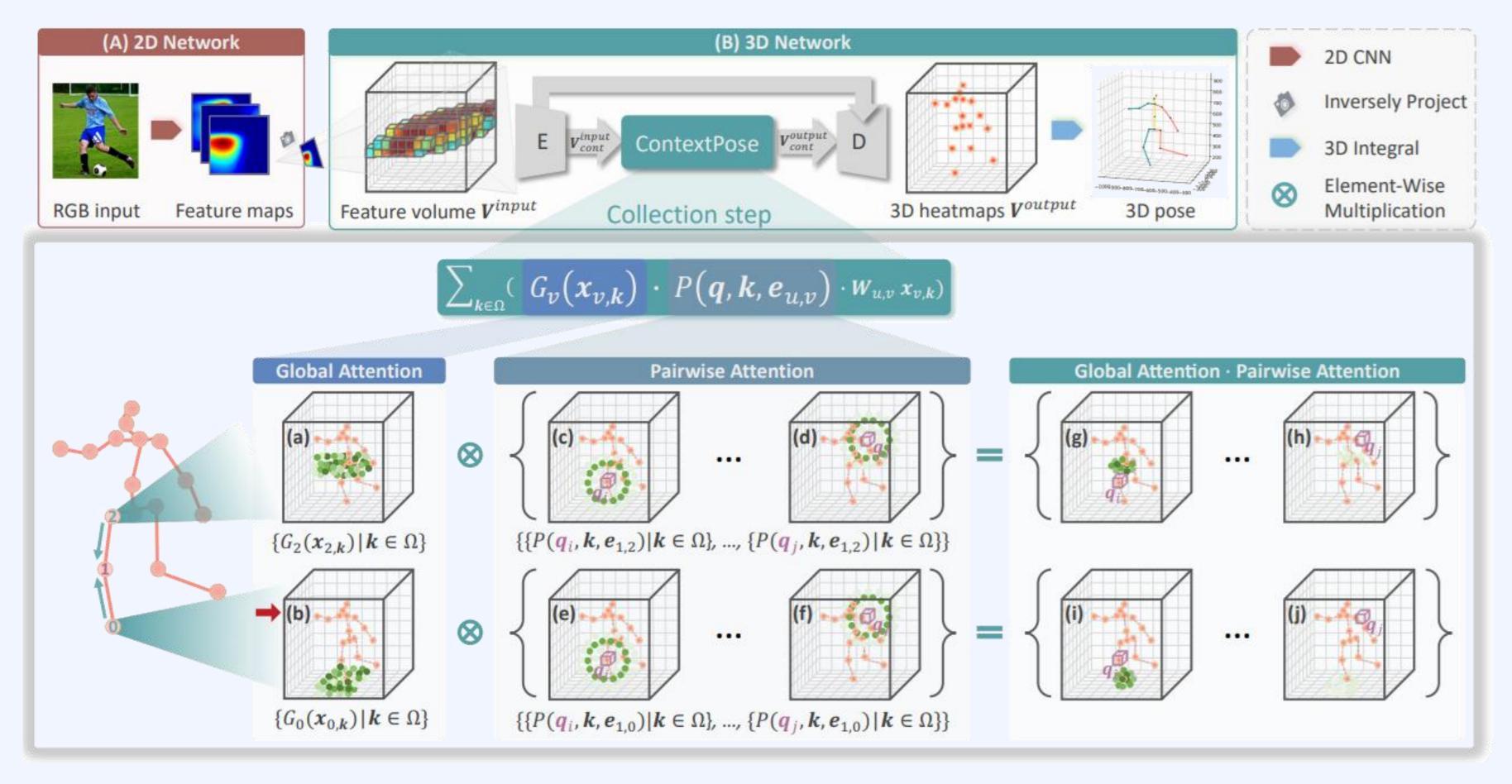
2.

Pose Estimation

Human Motion Understanding Human Pose Estimation

X. Ma et al. Context Modeling in 3D Human Pose Estimation: A Unified Perspective. CVPR

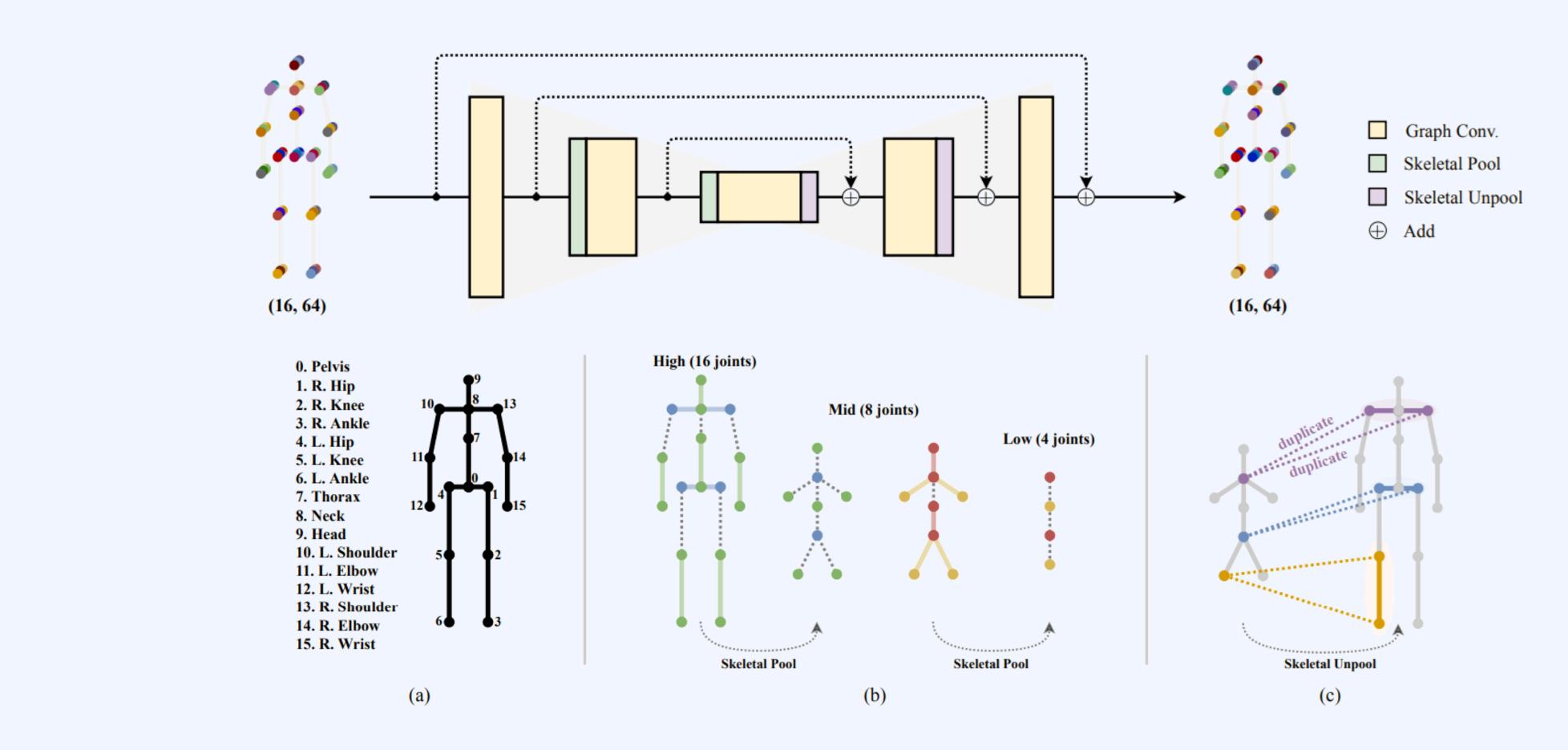
ContextPose



Human Motion Understanding Human Pose Estimation

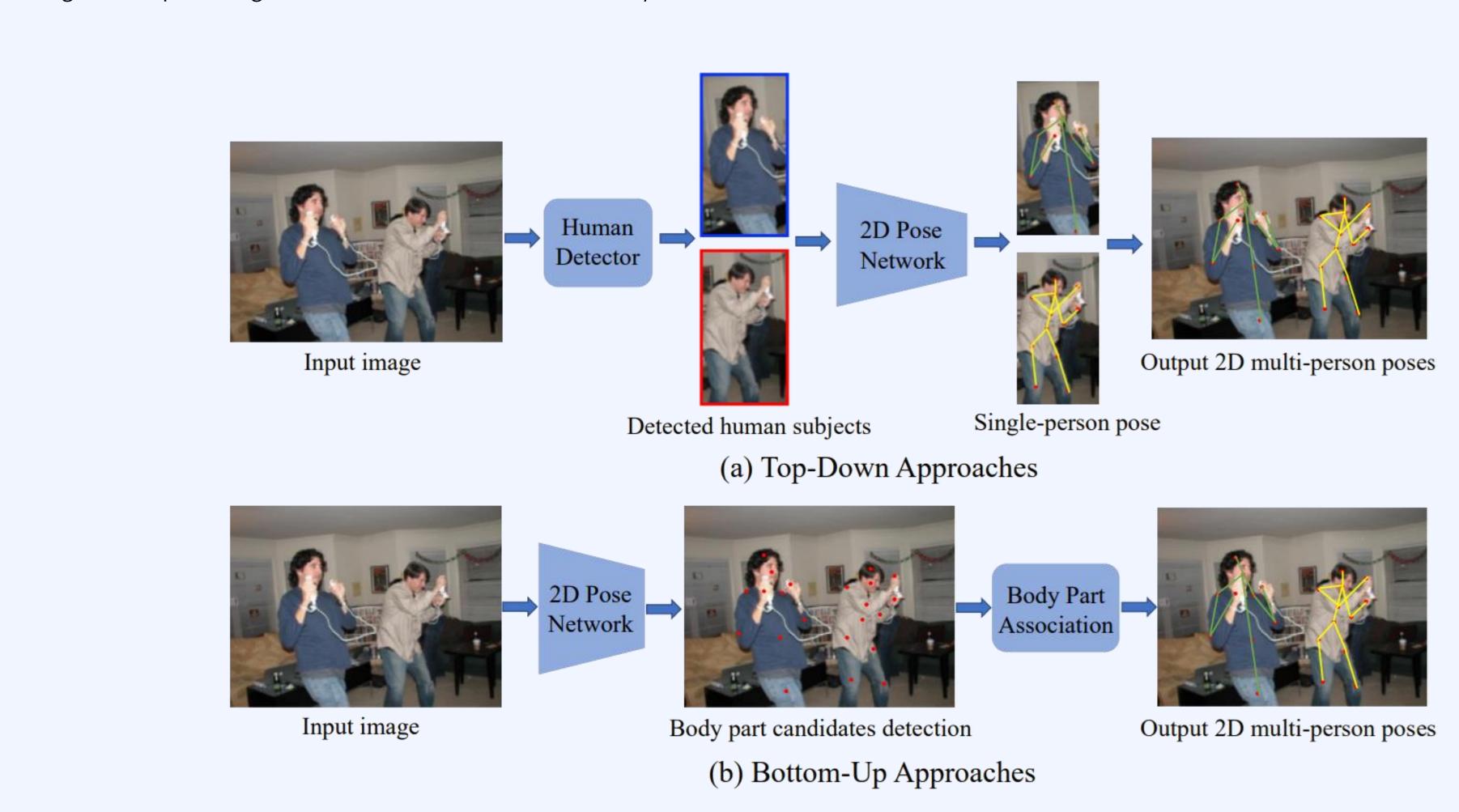
T. Xu et al. Graph Stacked Hourglass Networks for 3D Human Pose Estimation. CVPR

Graph Hourglass



Human Motion Understanding Human Pose Estimation

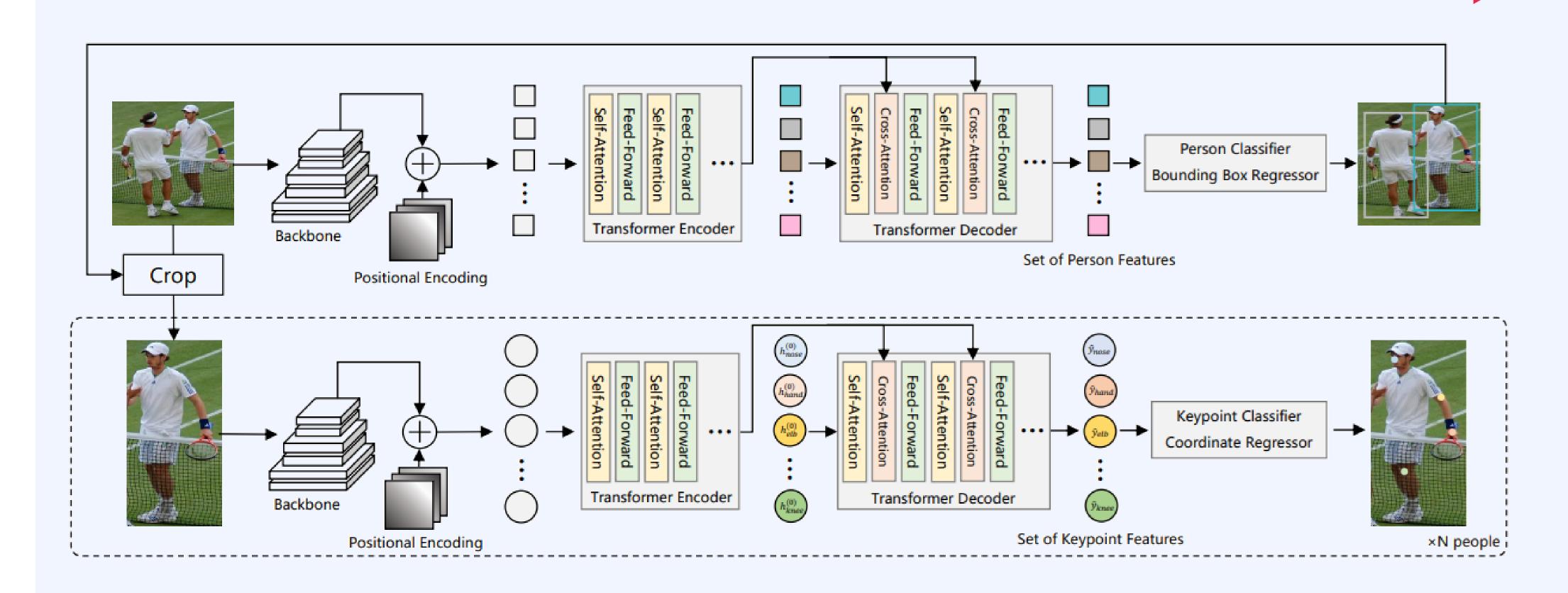
€. Zheng et al. Deep Learning-Based Human Pose Estimation: A Survey



Human Motion Understanding Human Pose Estimation

K. Li et al . Pose Recognition with Cascade Transformers. CVPR

PRTR



Human Motion Understanding Human Pose Estimation

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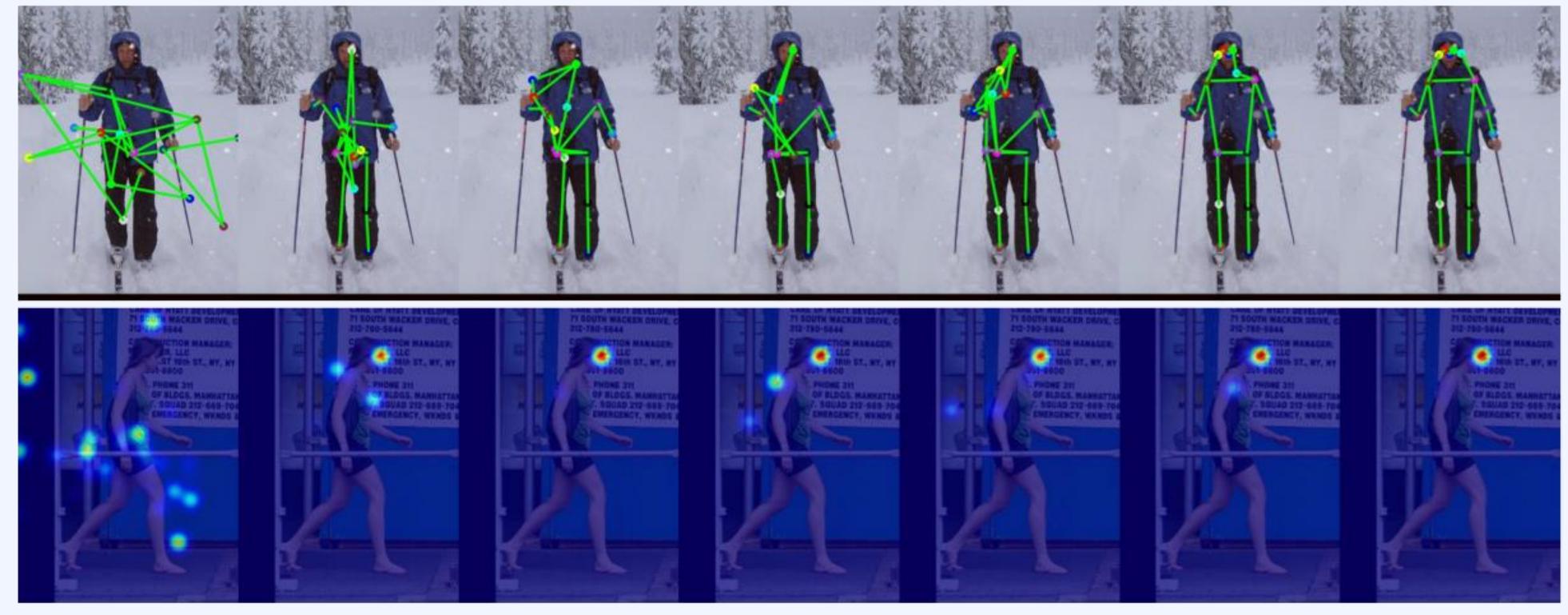
Pose Estimation

K. Li et al . Pose Recognition with Cascade Transformers. CVPR

PRTR

Layers

Final



Overlay of heatmaps of 100 queries for Right Ear and Left Eye