Image Assistance and Bone-Length Stability based 3D Pose Estimation with Monocular Camera

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	Average
	Walk
	Greet
4	
LIV VIX	Eat
	Discuss
	Direct

Action	work/mm	P1+P2 /mm
Direct	45.9	44.1
Discuss	47.5	46.6
Eat	44.3	43.0
Greet	46.4	44.8
Walk	33.1	32.3
Average	47.6	46.5

	Acc/mm	∆ Bone length <0.5 mm
VideoPose3D	47.6	59%
P1+P2	46.5	72% (+13%)

Conclusion

- The final MPJPE result is 46.5mm, which is an improvement of 1.1mm compared with the VideoPose3D baseline.
- With our proposed loss, the bone length stability increases.



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