

human-pose-estimation-0001

human-pose-estimation-0002

human-pose-estimation-0003

human-pose-estimation-0004

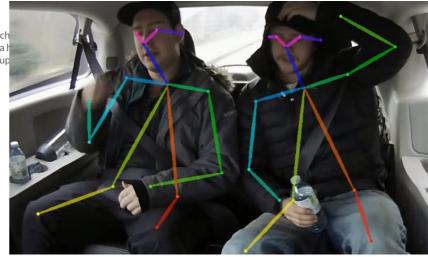
- > Image Processing
- > Text Detection
- > Text Recognition

human-pose-estimation-0003

Use Case and High-Level Description

This is a multi-person 2D pose estimation network based on the EfficientHRNet approach Associative Embedding framework). For every person in an image, the network detects a skeleton consisting of keypoints and connections between them. The pose may contain up eyes, nose, shoulders, elbows, wrists, hips, knees, and ankles.

## Intel pre-trained model Zoo in OpenVINO

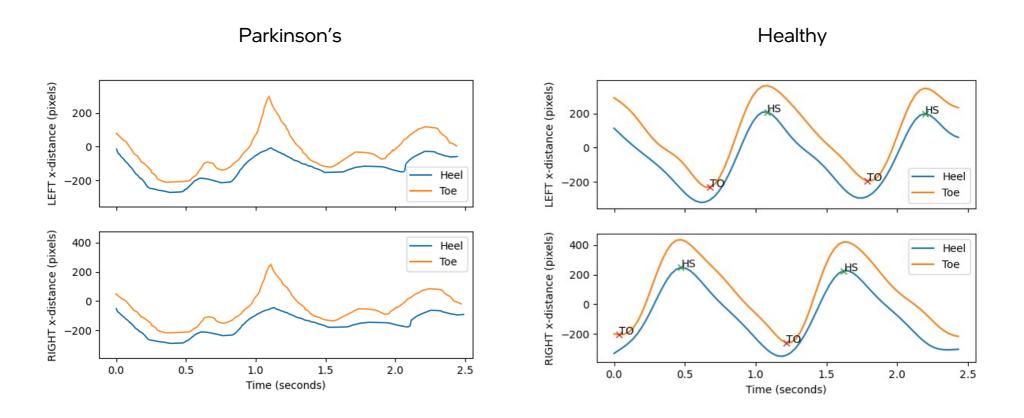


ensor_time		gyro[1]	gyro[2]	acc[0]	acc[1]	acc[2]	mag[0]	mag[1]	mag[2]	sensor_roll	
0	0					3264					
0.02	0					3264	-0.2				
0.04	0				512	3200	-0.21	-1.23			
0.06	0	0	0			3200			0.28	-13.93	125.3
0.08	0	0	0		512	3200	-0.2	-1.22	0.27		
0.1	0	0	0	-16640	512	3200	-0.19	-1.23	0.28	-13.91	125.2
0.12	0	0	0	-16640	512	3200	-0.21	-1.23	0.28	-13.9	125.2
0.14	0	0	0	-16512	192	3328	-0.2	-1.23	0.27	-13.89	125.1
0.16	0	0	0	-16512	192	3328	-0.21	-1.23	0.27	-13.88	125.1
0.18	32	-21	-33	-16512	192	3328	-0.19	-1.23	0.27	-13.87	125.0
0.2	70	-61	-59	-16512	192	3328	-0.2	-1.23	0.27	-13.84	124.8
0.22	120	-66	-33	-16512	192	3328	-0.19	-1.22	0.27	-13.69	124.
0.24	27	-63	3	-16576	-896	3264	-0.2	-1.23	0.28	-13.63	124.7
0.26	-7	-50	52	-16576	-896	3264	-0.19	-1.22	0.28	-13.55	124.8
0.28	-8	-36	108	-16576	-896	3264	-0.21	-1.23	0.27	-13.38	125.0
0.3	211	-42	101	-16576	-896	3264	-0.2	-1.23	0.27	-12.92	125.1
0.32	278	-25	53	-16576	-896	3264	-0.2	-1.22	0.28	-12.45	125.2
0.34	161	-23	-16	-16448	640	3392	-0.2	-1.22	0.28	-12.23	125.1
0.36	205	-15	-61	-16448	640	3392	-0.2	-1.22	0.29	-12.02	125.0
0.38	180	11	-130	-16448	640	3392	-0.19	-1.22	0.29	-11.97	124.6
0.4	157	8	-230	-16448	640	3392	-0.19	-1.22	0.3	-12.11	124.1
0.42	191	-36	-289	-16448	640	3392	-0.19	-1.22	0.29	-12.28	123.5
0.44	240	-94	-310	-16512	1472	3200	-0.19	-1.23	0.3	-12.38	122.8
0.46	180	-104	-255	-16512	1472	3200	-0.18	-1.22	0.3	-12.48	122.3
0.48	132	-93	-190	-16512	1472	3200	-0.16	-1.22	0.31	-12.53	121.9
0.5	66	-66	-135	-16512	1472	3200	-0.16	-1.22	0.31	-12.6	121.6
0.52	108	-79	-118	-16512	1472	3200	-0.16	-1.21	0.31	-12.58	121.4
0.54	189	-97	-130	-16448	192	2944	-0.16	-1.22	0.31	-12.48	121.1
0.56	198	-104	-162	-16448	192	2944	-0.14	-1.22	0.31	-12.42	120.8
0.58	187	-106	-153	-16448	192	2944	-0.15	-1.23	0.31	-12.35	120.5



Data Gathered from OpenPose

Tracking of Movement on our Al Algorithm



These graphs will be shared with the medical professionals for diagnosis. For a next step, we plan to work with medical professionals in hospitals to sharpen the accuracy of the algorithm.