

## **Attention-Oriented Action Recognition for Real-Time Human-Robot Interaction**

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## Tencent 腾讯



#### Action-in-Interaction Dataset (AID)

Eval	uation	of	efficiency
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>	Evaluation of recogniton accuracy	LSTA effects				
		PAPNet	1.4M	112	96.00	
	action instances	OpenPose v2 [2]	11.6M	43	95.73	
	action instances	OpenPose v1 [2]	42.0M	15	96.70	
	10 categories 20 subjects 1031	CPN v2 [1]	27.0M	47	96.56	
	Simulating mobile robot's viewpoints	CPN v1 [1]	46.0M	33	97.31	
	RGB + Depth	model	parameters	fps	PCK@0.15	

### 2

model	cAP	$AP_{trig}$	$P_{trig}$	$R_{trig}$
MTLN [3]	75.30	78.41	78.46	79.39
JCR-RNN [4]	66.95	73.79	79.08	73.60
Beyond joints [5]	76.86	82.28	83.07	83.07
ST-GCN [6]	81.63	87.56	87.72	87.41
base-AGANet	81.90	89.55	90.61	88.74
AGANet	87.50	96.00	95.08	95.71

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