

Learning to Disambiguate Strongly Interacting Hands via Probabilistic Per-pixel Part Segmentation



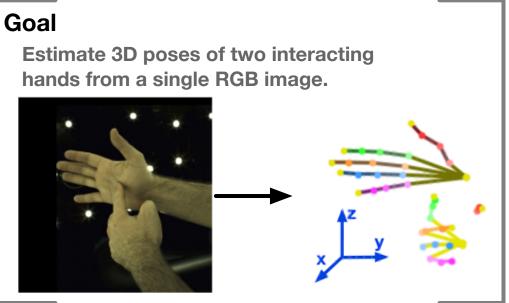


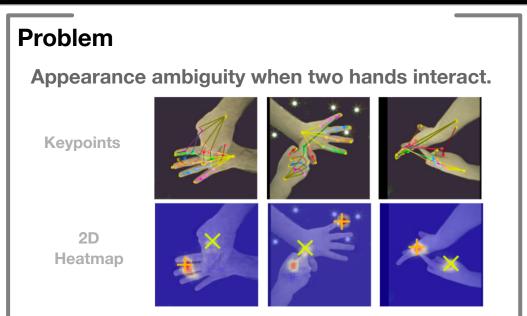
Zicong Fan^{1,2}, Adrian Spurr¹, Muhammed Kocabas^{1,2},

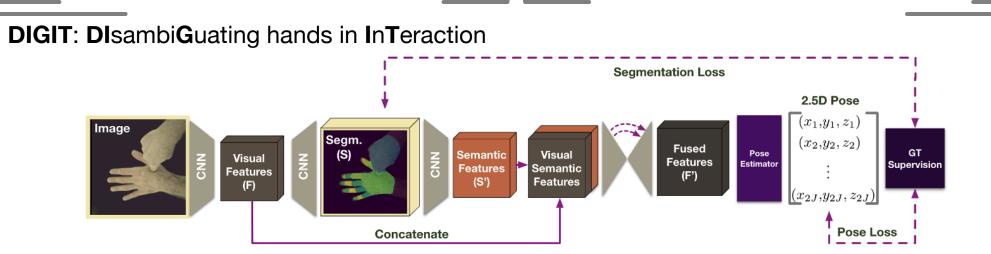
Siyu Tang¹, Michael Black², Otmar Hilliges¹

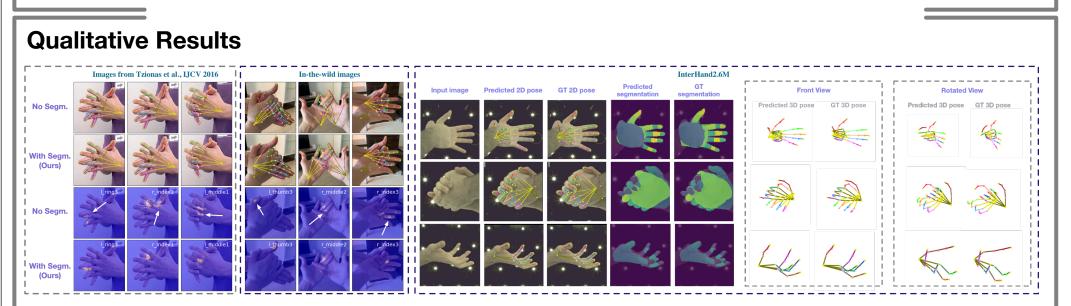
MAX PLANCK INSTITUTE 1ETH Zürich, Switzerland 2Max Planck Institute for Intelligent Systems, Tübingen, Germany









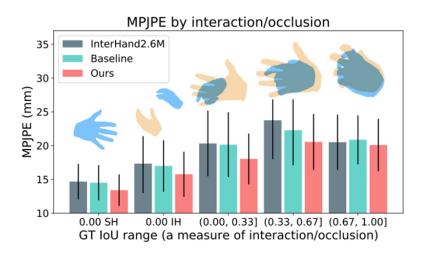


Quantitative Results

SOTA performance

Methods	MPJPE Val	MRRPE Val	MPJPE Test	MRRPE Test
InterHand2.6M [33]	18.58	35.64	16.02	32.57
Baseline	17.79	33.90	15.06	31.36
Ours	16.72	31.53	14.27	29.22
% in improvement over [33]	10.01	11.53	10.92	10.29

Ablation Study



Allows end-to-end training

Ablation Study	MPJPE Val	MRRPE Val	MPJPE Test	MRRPE Test
Part segm.§	16.68/23.52	41.99	14.35/20.57	38.87
Part segm. (ours)	14.06/20.01	35.13	12.30/17.22	32.88

Preserves segmentation uncertainty

Ablation Study	MPJPE Val	MRRPE Val	MPJPE Test	MRRPE Test
LR segm. [†]	28.72/36.05	50.85	25.75/31.46	46.98
Part segm. [†]	17.69/25.49	46.00	15.16/22.08	41.46
LR segm. (ours)	14.87/21.19	34.70	12.92/18.40	32.13
Part segm. (ours)	14.03/20.01	35.26	12.29/17.23	32.88



Project Page zc-alexfan.github.io/digit