

Jiefeng Li

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[[Google Scholar](#)] [[Github](#)][[Homepage](#)]

Education

Shanghai Jiao Tong University, China (SJTU) <i>Ph.D student</i> in Computer Science	2020 - Present
Shanghai Jiao Tong University, China (SJTU) <i>Master of Engineering</i> in Computer Science	2018 - 2020
Shanghai Jiao Tong University, China (SJTU) <i>Bachelor of Engineering</i> in Electronic Engineering, Rank: 2/170, GPA: 92.54/100	2014 - 2018

Publications

Cited by 672

Pose Flow: Efficient Online Pose Tracking. British Machine Vision Conference Yuliang Xiu*, Jiefeng Li* , Haoyu Wang, Yinghong Fang, Cewu Lu <i>In Proc. BMVC 2018</i>	258
CrowdPose: Efficient Crowded Scenes Pose Estimation and a New Benchmark Jiefeng Li , Can Wang, Hao Zhu, Yihuan Mao, Hao-Shu Fang, Cewu Lu (Oral) <i>In Proc. CVPR 2019</i>	231
HMOR: Hierarchical Multi-Person Ordinal Relations for Monocular Multi-Person 3D Pose Estimation Jiefeng Li* , Can Wang*, Wentao Liu, Chen Qian, Cewu Lu (Spotlight) <i>In Proc. ECCV 2020</i>	38
HybrIK: A Hybrid Analytical-Neural Inverse Kinematics Solution for 3D Human Pose and Shape Estimation Jiefeng Li , Chao Xu, Zhicun Chen, Siyuan Bian, Lixin Yang, Cewu Lu <i>In Proc. CVPR 2021</i>	33
Human Pose Regression with Residual Log-likelihood Estimation Jiefeng Li , Siyuan Bian, Ailing Zeng, Can Wang, Bo Pang, Wentao Liu, Cewu Lu (Oral) <i>In Proc. ICCV 2021</i>	16
Localization with Sampling-Argmax Jiefeng Li , Tong Chen, Ruiqi Shi, Yujing Lou, Yong-Lu Li, Cewu Lu <i>Advances in NeruIPS 2021</i>	
D&D: Learning Human Dynamics from Dynamic Camera Jiefeng Li , Siyuan Bian, Chao Xu, Gang Liu, Gang Yu, Cewu Lu (Oral) <i>In Proc. ECCV 2022</i>	

Detailed 2D-3D Joint Representation for Human-Object Interaction Yong-Lu Li, Xinpeng Liu, Han Lu, Shiyi Wang, Junqi Liu, Jiefeng Li , Cewu Lu <i>In Proc. CVPR 2020</i>	67
CPF: Learning a Contact Potential Field to Model the Hand-object Interaction Lixin Yang, Xinyu Zhan, Kailin Li, Wenqiang Xu, Jiefeng Li , Cewu Lu <i>In Proc. ICCV 2021</i>	19
SmoothNet: A plug-and-play network for refining human poses in videos Ailing Zeng, Lei Yang, Xuan Ju, Jiefeng Li , Jianyi Wang, Cewu Lu <i>In Proc. ECCV 2022</i>	3
TDAF: Top-Down Attention Framework for Vision Tasks Bo Pang, Yizhuo Li, Jiefeng Li , Muchen Li, Hanwen Cao, Cewu Lu <i>In Proc. AAAI 2021</i>	3
ArtiBoost: Boosting Articulated 3D Hand-Object Pose Estimation via Online Exploration and Synthesis Kailin Li, Lixin Yang, Xinyu Zhan, Jun Lv, Wenqiang Xu, Jiefeng Li , Cewu Lu <i>In Proc. CVPR 2022</i>	3
Unsupervised Representation for Semantic Segmentation by Implicit Cycle-Attention Contrastive Learning Bo Pang, Yizhuo Li, Yifan Zhang, Gao Peng, Jiajun Tang, Kaiwen Zha, Jiefeng Li , Cewu Lu <i>In Proc. AAAI 2022</i>	1
Unified and Fast Human Trajectory Prediction Via Conditionally Parameterized Normalizing Flow Jianhua Sun, Zehao Wang, Jiefeng Li , Cewu Lu <i>IEEE Robotics and Automation Letters</i>	
Pseudo View Representation Learning for Monocular RGB-D Human Pose and Shape Estimation Armando Zhu, Jiefeng Li , Cewu Lu <i>IEEE Signal Processing Letters</i>	

Research Experience

Machine Vision and Intelligence Group, SJTU <i>Research Assistant, PhD student</i> <i>focusing on human pose and shape estimation</i> <i>Advised by Prof. Cewu Lu</i>	<i>2017 - Present</i>
Tencent, Shanghai <i>Computer Vision Research</i> <i>Focusing on dynamic 3D pose and shape estimation</i> <i>Publish an ECCV oral paper</i>	<i>2021 - 2022</i>

SenseTime Research, Shanghai
Computer Vision Research
Focusing on multi-person 3D pose estimation
Publish an ECCV spotlight paper

2019 - 2020

Research Projects

AlphaPose [[Project Link](#)]
Over 6.2k stars on Github
Co-first author

2018 - Present

- *Fast and accurate multi-person pose estimation and tracking system.*
- *Supports PyTorch, Mxnet, TensorFlow and Torch.*

GluonCV [[Project Link](#)]

2019

Over 5.2k stars on Github
Participate in the development of pose estimation module

- *Model zoo of state-of-the-art deep learning algorithms in computer vision.*

Selected Awards

National Scholarship	2019, 2021
Ji Hanbing Scholarship	2017
COCO Keypoints Challenge 2017 @ ICCV 2017 workshop, 6th place, <i>Core developer</i>	Oct. 2017
The Challenge Cup, Shanghai, Grand Prize	2017
Tung OOCL Scholarship	2015
Academic Excellence Scholarship, SJTU	2014 - 2017

Services

Reviewer for NeurIPS'21-22, CVPR'22, ECCV'22, JVIS, T-ASE, IMAVIS

Patents

Pose-guided human re-identification-based human posture estimation and tracking method , CN114038058A	2022
Two-dimensional and three-dimensional multi-person posture estimation system and method , CN112651316A	2021
Posture detection method and device, computer equipment and storage medium , CN111582204A	2020

Image processing method and device, electronic equipment and storage medium, <i>CN111582207A</i>	2020
Method for detecting community and predicting user relation based on timing sequence text network, <i>CN107480213A</i>	2017

Teaching

Teaching Assistant, CS348 Computer Vision

Fall, 2017

Technical Skills

Programming: Python, C/C++, Lua

Professional Tools: PyTorch, Torch, TensorFlow, MXNet, Caffe, MATLAB, LATEX