Yakun Ju

(086)13553009107 (Wechat) https://kelvin-ju.github.io/yakunju yakun.ju@polyu.edu.hk yakun.ju@hotmail.com

EDUCATION

•	Ocean University of China - School of Computer Science and Technology Doctor of Philosophy in Computer Science	Qingdao, China Sept. 2016 - Jun. 2022
•	Sichuan University - School of Mechanical Engineering	Chengdu, China
	Bachelor of Engineering in Industrial Design	Sept. 2012 - Jun. 2016
т	- Avenue very control of the control	

EXPERIENCE

_	LAI ERIENCE		
•	The Hong Kong Polytechnic University Postdoctoral Fellow - Department of Electronic and Information Engineering	Hong Kong SAR Sept. 2022 - Present	
•	The Hong Kong Polytechnic University Research Assistant - Department of Electronic and Information Engineering/Computing	Hong Kong SAR Jan. 2021 - Jul. 2021	
•	Peking University Visiting Ph.D. Student - Wangxuan Institute of Computer Technology	Beijing, China <i>Sept. 2020 - Dec. 2020</i>	

Honors

- ACM Qingdao Outstanding Doctoral Dissertation Award Sept. 2022
- Outstanding Graduates of Shandong Province Jun. 2022
- Inspur Scholarship Dec. 2021
- National Scholarship for Doctoral Students Dec. 2020
- Excellent Achievement Award for Postgraduates of Shandong Province Dec. 2020
- Goers Acoustic Scholarship Dec. 2017
- Excellent Postgraduate Student of Ocean University of China 2018, 2019, 2020, 2021

Publication

- Yakun Ju, Boxin Shi, Muwei Jian, et al. NormAttention-PSN: A High-frequency Region Enhanced Photometric Stereo Network with Normalized Attention, International Journal of Computer Vision (IJCV), 2022.
- Yakun Ju, Junyu Dong, Sheng Chen. Recovering surface normal and arbitrary images: A dual regression network for photometric stereo, IEEE Transactions on Image Processing (IEEE TIP), 2021.
- Yakun Ju, Kin-Man Lam, Yang Chen, et al. Pay attention to devils: A photometric stereo network for better details, International Conference on International Joint Conferences on Artificial Intelligence (IJCAI 2020).
- Yakun Ju, Muwei Jian, Shaoxiang Guo, et al. Incorporating Lambertian Priors into Surface Normals Measurement, IEEE Transactions on Instrumentation and Measurement (IEEE TIM), 2021.
- Yakun Ju, Xinghui Dong, Yingyu Wang, et al. A Dual-cue Network for Multispectral Photometric Stereo, Pattern Recognition (PR), 2020.
- Yakun Ju, Lin Qi, Jichao He, et al. MPS-Net: Learning to recover surface normal for multispectral photometric stereo. Neurocomputing, 2020.
- Yakun Ju, Yuxin Peng, Muwei Jian, et al. Learning Conditional Photometric Stereo with High-resolution Features, Computational Visual Media (CVMJ), 2022.
- Yakun Ju, Lin Qi, Huiyu Zhou, et al. Demultiplexing colored images for multispectral photometric stereo via deep neural networks, IEEE Access, 2018.
- Yakun Ju, Muwei Jian, Junyu Dong, et al. Learning photometric stereo via manifold-based mapping, IEEE International Conference on Visual Communications and Image Processing (IEEE VCIP 2020).
- Yakun Ju, Lin Qi, Hao Fan, et al. Photometric stereo via random sampling and tensor robust principal component analysis, International Conference on Graphic and Image Processing (ICGIP 2017).
- Yanru Liu, Yakun Ju (corresponding author), Muwei Jian, et al. A deep-shallow and global-local multi-feature fusion network for photometric stereo, Image and Vision Computing (IVC), 2022.
- Yingyu Wang, **Yakun Ju**, Muwei Jian, et al. Self-supervised depth completion with attention-based loss, International Workshop on Advanced Imaging Technology (**IWAIT 2020**).
- Shaoxiang Guo, Eric Rigall, Yakun Ju, et al. 3D Hand Pose Estimation from Monocular RGB with Feature Interaction Module, IEEE Transactions on Circuits and Systems for Video Technology (IEEE TCSVT), 2022.
- Yuan Rao, Jian Yang, Yakun Ju, et al. Learning General Feature Descriptor for Visual Measurement With Hierarchical View Consistency, IEEE Transactions on Instrumentation and Measurement (IEEE TIM), 2022.
- Hao Fan, Lin Qi, **Yakun Ju**, et al. Refractive laser triangulation and photometric stereo in underwater environment, Optical Engineering (**OE**), 2017.

INVENTION PATENT

- Yakun Ju, Junyu Dong, Lin Qi, et al. A Single Frame Image 3D Reconstruction Device and Method Based on Deep Learning, Granted invention patent in China, 2017113024008.
- Yakun Ju, Junyu Dong, Feng Gao. High-frequency Region Enhancement Photometric Stereo Method Based on Deep Learning, Granted invention patent in China, 202111524515.
- Muwei Jian, Rui Wang, Xing Wang, Yakun Ju, et al. Transform-based face image super-resolution method, Granted invention patent in China, 2021106623438.
- Muwei Jian, Rui Wang, Xing Wang, Ji Chen, Yakun Ju, et al. Low-resolution face super-resolution and recognition method based on face priori knowledge, Granted invention patent in China, 202110510886.

Talk

- Data-Driven Photometric Stereo, **Shenzhen University**, Sept. 2022
- Data-driven Photometric Stereo, CCF-Annual Conference on Chinese Intelligent Robots, Dec. 2021
- Workshop5 (3D Vision)-Top Paper Spoltlight, Vision And Learning SEminar(VALSE), Oct. 2021.
- Research on Data-Driven Photometric Stereo, IJCAI-SAIA Young Elite Symposium, Jul. 2021.

PROFESSIONAL SERVICE

- **Guest Editor:** Photonics-SI:"Advanced Photometric 3D Reconstruction and beyond". https://www.mdpi.com/journal/photonics/special_issues/604639UE1N
- Journal Reviewer: IJCV, IEEE TIP, IEEE TIE, PR, KBS, Photonics, Scientific Report

Latest updated on Sept. 2022