

YIFAN WANG

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EDUCATION

University of Southern California, Los Angeles, US

Ph.D. in Electrical and Computer Engineering

Aug. 2020 - Today

Master in Computer Science

Jan. 2021 - Aug. 2022

Master in Electrical and Computer Engineering

Aug. 2018 - May 2020

Fudan University, Shanghai, CN

Bachelor of Electronic and Information Science and Technology

Sept. 2014 - June 2018

PROJECTS

Green Coding, sponsored by Meta Inc.

May 2020 - Today

- Develop next generation image and video codec
- Reduce the complexity comparing with the latest codec and DL based methods
- Maintain comparable performance

WORK EXPERIENCE

Amazon Web Service, Irvine, US

June 2019 - Aug. 2019

- Communicated with customers to understand their needs and perfect their ideas
- Developed the backend functions based on AWS managedblockchain service
- Cooperated with team members to integrate the backend with frontend using AWS Lambda
- Presented the project progress to customers on a weekly basis

PUBLICATIONS

- Wang, Yifan, et al. "A machine learning approach to optimal inverse discrete cosine transform (IDCT) design." arXiv preprint arXiv:2102.00502 (2021).
- Wang, Yifan, et al. "DCST: a data-driven color/spatial transform-based image coding method." Applications of Digital Image Processing XLIV. Vol. 11842. SPIE, 2021.
- Wang, Yifan, and Huiliang Shang. "Improved Monocular ORB-SLAM2 Inspired By The Optical Flow With Better Accuracy." 2018 WRC Symposium on Advanced Robotics and Automation (WRC SARA). IEEE, 2018.
- Rouhsedaghat, Mozhdeh, et al. "Facehop: A light-weight low-resolution face gender classification method." International Conference on Pattern Recognition. Springer, Cham, 2021.
- Zhang, Min, et al. "Pointhop++: A lightweight learning model on point sets for 3d classification." 2020 IEEE International Conference on Image Processing (ICIP). IEEE, 2020.
- Rouhsedaghat, Mozhdeh, et al. "Facehop: A light-weight low-resolution face gender classification method." International Conference on Pattern Recognition. Springer, Cham, 2021.

SKILLS

Compression, Python, Machine Learning, C/C++, JavaScript, SQL, Image Processing, Computer Vision, Fontend