Qiuliang Ye CURRICULUM VITAE

CONTACT INFORMATION

DE503, The Hong Kong Polytechnic University
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RESEARCH INTERESTS

Computational Imaging, Image & Signal Processing, Optimization, Deep Learning

EDUCATIONAL BACKGROUND

The Hong Kong Polytechnic University, Jan. 2019 -

Ph.D in Electronic and Information Engineering
Dissertation title: Robust Phase Retrieval Using Optimization and Deep Learning Techniques, supervised by *Dr. Daniel Pak-Kong Lun.*

- GPA: 3.90/4.00

Guangdong University of Technology, Sept. 2014 - June 2018

Bachelor of Science in Information Engineering, *Graduated with distinction.*
Bachelor Thesis: Block processing for empirical mode decomposition, supervised by *Prof. Bingo Wing-Kuen Ling.*

- GPA: 4.03/5.00 **top** 0.1%

PUBLICATIONS

1. **Qiuliang Ye***, Daniel Pak-Kong Lun, Bingo Wing-Kuen Ling, and Li-Wen Wang. Optimal coded diffraction patterns for practical phase retrieval. *submitted to IEEE Trans on Signal Processing*, 2022
2. **Qiuliang Ye***, Li-Wen Wang, and Daniel Pak-Kong Lun. Towards practical single-shot phase retrieval with physics-driven deep neural network. *arXiv:2208.08604, submitted to IEEE Trans on Image Processing*, 2022
3. **Qiuliang Ye***, Li-Wen Wang, and Daniel P. K. Lun. **SiSPRNet: end-to-end learning for single-shot phase retrieval**. *Opt. Express*, 30(18):31937–31958, Aug 2022
4. **Qiuliang Ye**, Yuk-Hee Chan, Michael G Somekh, and Daniel PK Lun. Robust phase retrieval with green noise binary masks. ***Optics and Lasers in Engineering***, 149:106808, 2022
5. **Qiuliang Ye**, Chris YH Chan, Michael G Somekh, and Daniel PK Lun. Coded diffraction pattern phase retrieval with green noise masks. In *International Workshop on Advanced Imaging Technology (IWAIT) 2022*, volume 12177, pages 161–166. SPIE, 2022
6. **Qiuliang Ye**, Bingo Wing-Kuen Ling, Daniel PK Lun, and Weichao Kuang. Parallel implementation of empirical mode decomposition for nearly bandlimited signals via polyphase representation. ***Signal, Image and Video Processing***, 14(2):225–232, 2020

7. Xiaozhu Mo, Bingo Wing-Kuen Ling, **Qiuliang Ye**, and Yang Zhou. Linear phase properties of the singular spectrum analysis components for the estimations of the rr intervals of electrocardiograms. ***Signal, Image and Video Processing***, 14(2):325–332, 2020

8. Zheng Li, **Qiuliang Ye**, Yitong Guo, Zikang Tian, Bingo Wing-Kuen Ling, and Ringo Wai-Kit Lam. Wearable non-invasive blood glucose estimation via empirical mode decomposition based hierarchical multiresolution analysis and random forest. In *2018 IEEE 23rd International Conference on Digital Signal Processing (DSP)*, pages 1–5. IEEE, 2018

9. Faxian Cao, Zhijing Yang, Mengying Jiang, Weizhao Chen, **Qiuliang Ye**, and Wing-Kuen Ling. Spectral-spatial classification of hyperspectral image using extreme learning machine and loopy belief propagation. In *2017 IEEE International Conference on Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData)*, pages 1061–1064. IEEE, 2017

*** stands for corresponding author.**

Academic Service

- Reviewer: BMVC2022, VCIP2022, ICME2022, DSP2018, ICCE-C2016.
- Membership: IEEE Signal Processing Society, OSA.

Research Experience

Research Assistant Oct. 2018 - Dec. 2018

Department of Electronic and Information Engineering,
The Hong Kong Polytechnic University
Supervisor: De. Daniel Pak-Kong Lun

- Project: Widefield Coded Microscopy for Surface Wave and Cellular Imaging

Research Assistant Aug. 2016 - Oct. 2018

School of Information Engineering,
Guangdong University of Technology
Supervisor: Prof. Bingo Wing-Kuen Ling

- Project: Optimization for empirical mode decomposition and its applications
- Supported by National Natural Science Foundation of China (Grant Nos. 61372173)

Student Helper

- International Workshop on Advanced Image Technology (IWAIT) 2022
- IEEE International Conference on Visual Communications and Image Processing (VCIP) 2020

Program Committee Oct. - Nov. 2016

IEEE The International Conference on Consumer Electronics - China (IEEE ICCE-China)

- took charge of easychair system of the conference and reviewed papers.
- Sponsored by IEEE Consumer Electronics Society

Teaching Experience

- EIE4413 Digital Signal Processing: 2019 Spring, 2020 Spring, 2022 Spring
- EIE529 Digital Image Processing: 2020 Fall
- EIE2100 Basic Circuit Analysis: 2021 Fall, 2022 Fall
- ENG2003 Information Technology: 2019 Fall, 2021 Spring

Skills and Interests

Computer Programming:

- Python, MATLAB, LaTeXand others
- Deep learning plaforms: Pytorch, tensorflow

Languages:

- English(Fluent), Cantonese (Native), Mandarin (Native)

Interests:

- Reading, Running, Thinking

Honors and Awards

Student Awards — Guangdong University of Technology

- Outstanding Student Scholarship (Grade 1) **(top 1%)** 2014-2015
- Specialized Scholarship of Excellent Academics **(1/52)** 2014-2015
- Outstanding Student Scholarship (Grade 1) **(top 1%)** 2015-2016
- Specialized Scholarship of Excellent Academics **(1/53)** 2015-2016
- Outstanding Student Scholarship (Grade 2) **(top 10%)** 2016-2017

Student Awards — P.R. China

- National Scholarship **(top 0.3%)** 2014-2015