Shenghong Luo

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Github ResearchGate Google Scholar

EDUCATION

BEng of Network Engineering (GPA 83/100, 3.07/5)

Sep.2019-Jun.2023

Huizhou University, China (Huizhou)

Core Courses: Data Structure, Computer Network, Operating System, Principle of Computer Organization, Computer Network Engineering, Database Application Technology.

MSc of Information Technology Management

Sep.2023-Jun.2024

Hong Kong Baptist University, China (Hong Kong)

Core Courses: Electronic Transformation in Business, Principles and Practices of Data Analytics.

RESEARCH INTEREST

Computer Vision; Deep learning; Image Restoration; AI Generated Content; 3D Reconstruction.

RESEARCH EXPERIENCE

Research Assistant, Shenzhen Advanced Technology Research Institute, Chinese Academy of Sciences

Feb.2023-now

- Executed experimental procedures in support of the "DeVigNet" research project, encompassing server maintenance and experiment implementation.
- Spearheaded the generation and meticulous curation of a comprehensive dataset, encompassing more than 2000 images.
- Played a pivotal role in contributing to the composition and refinement of the "DeVigNet" research paper.
- Gains: Through participating in the DeVigNet project, I acquired essential knowledge in creating datasets, constructing model and conducting experiments on server. Moreover, I gained insights into the latest advancements in the field of low-level technology. Additionally, I participated in UWFormer, which deepened my understanding of methods in the field of Under Image Enhancement. And I studied networks like Transformer.

Research Assistant, University of Macau

Aug.2022-now

- Collaborated extensively on the "DocDeshadower" research paper, actively contributing to the research process and playing a pivotal role in the paper's composition.
- Conducted comprehensive data collection and rigorous analysis pertaining to vignetting and low-light enhancement, effectively presenting findings through the use of graphical representations and tables.
- Provided valuable support by mentoring and guiding newly recruited Research Assistants in their academic paper writing tasks.
- Gains: Through the course of my research project, DocDeshadower, I acquired a comprehensive understanding of the entire research process. This encompassed generating motivation, selecting suitable methods, constructing models, conducting experiments, and analyzing the results. Moreover, I gained proficiency in research, particularly in the utilization of LaTeX, thus enhancing my overall comprehension.

PUBLICATIONS

- Li Z, Zhang Z, Luo S, et al. An Improved Matting-SfM Algorithm for 3D Reconstruction of Self-Rotating Objects[J]. Mathematics, 2022, 10(16): 2892.
- Li Z*, **Luo S***, et al. 3d reconstruction system for foot arch detecting based on openmvg and openmvs[C]//2022 5th International Conference on Pattern Recognition and Artificial Intelligence (PRAI). IEEE, 2022: 1017-1022. (*Equal Contribution)
- Luo S, et al. Devignet: High-Resolution Vignetting Removal via a Dual Aggregated Fusion Transformer With Adaptive Channel Expansio, AAAI 2024 (Under Review).
- Li Z*, Luo S*, et al. UWFormer: Underwater Image Enhancement via a Semi-Supervised Multi-Scale Transformer,

- AAAI 2024 (Under Review)(*Equal Contribution).
- Luo S, et al. DocDeshadower: Frequency-aware Transformer for Document Shadow Removal, MMAsia 24 (Under Review).

WORK EXPERIENCE

Software Engineer Intern

Unionman Technology Co., Ltd, Guangdong

Jul.2021-Dec.2021

- Led WeChat Mini Program development and conducted application testing.
- Conducted market analysis to identify potential opportunities and formulated technology programs accordingly.
- Provided support to team members and the manager in Linux development, debugging, and Springboot project development.

Information Technology Intern

Wuhua Yijian Engineering Co., Ltd, Guangdong

Sep.2022-Jan.2023

- Contributed to the maintenance and upgrade of the company's network system. This involved tasks such as configuring network connections, managing network equipment, monitoring network performance, and troubleshooting network issues.
- > Gained proficiency in fundamental techniques and tools for office management, encompassing office asset management, office safety protocols, and routine office maintenance.

HONORS AND AWARDS

Hong Kong Baptist University MSc ITM Entrance Scholarship	Sep.2023
Third Prize in the National Youth Innovative Translation Competition	June.2022
Second Prize in Huizhou University Campus Dance Competition	Dec.2020
Excellence Award in Huizhou University New Student Talent Competition	Sep.2019

EXTRACURRICULAR ACTIVITIES

Student Affairs

Organizational department officer
Sep.2019-Sep.2020

Volunteer

➢ Guitar performer➢ Dance performerDec.2019Dec.2020

SKILLS

Python, Pytorch, Latex, OpenCV, Linux