Xu Wu

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Education

Ph.D., Shenzhen University (SZU), Shenzhen, China 2021 – Present

- *Ph.D.* in Computer Science and Technology and my mentor is Zhihui Lai.
- *Research interests* include image processing and semantic segmentation in low-light environments.

M.S., Guilin University of Electronic Technology (GUET), Guangxi, China 2018 – 2021

- *M.S.* in Computer Science and Technology and my mentor is Zetao Jiang.
- *Research interests* consist of image processing and object detection in low-light scenes.

Publications

- Zetao Jiang, **Xu Wu**, Shaoqin Zhang, "Low-illumination Image Enhancement Based on MR-VAE". Chinese Journal of Computers, 2020,43(07):1328-1339. (Chinese top journal)
- Zetao Jiang, Yi Qian, **Xu Wu**, Shaoqin Zhang. "Low-light Image Enhancement Method Based on ARD-GAN" Chinese Journal of Electronics, 2021,49(11):2160-2165.
- **Xu Wu**, Zhihui Lai, Shiqi Yu, Jie Zhou, Zhuoqian Liang, Linlin Shen. "Coarse-to-Fine Low-light Image Enhancement with Light Restoration and Color Refinement" got a *Major Revision* of the IEEE Transactions on Emerging Topics in Computational Intelligence (IF:4.85).
- **Xu Wu**, Zhihui Lai, Jie Zhou, Can Gao, Bingwen Feng, Linlin Shen. "Effectiveness of Low-light Image Enhancement on Image Classification and Object Detection: An Empirical Study" submitted to the IJCAI2023.
- **Xu Wu**, Zhihui Lai, Xianxu Hou, Jiajun Wen, Linlin Shen. "Illumination Calibration and Scale-Aware Feature Learning for Low-light Image Enhancement" submitted to the IEEE Transactions on Industrial Informatics.

Patents

- Zetao Jiang, **Xu Wu**. "A Multi-Stage VAE for Low-light Image Enhancement". Patent number: CN110163815B.
- Zhuoqian Liang, **Xu Wu**. "A Low-light Image Processing Method Based on Bilateral Grid". Patent number: 202210976809.2.

Experience

Graduate Student Innovation Project of GUET GUET, 2018 – 2021

- A large object dataset that contains low-light images and labels.
- This project aims to combine low-light image enhancement and object detection to design a model that can effectively detect objects in low-light environments.

Student Assistant in GUET GUET, 2018 – 2019

Honors and Awards

- *2nd Prize*, Award on China Post-Graduate Mathematic Contest in Modeling 2022
- Excellent Master's Degree Thesis of GUET 2021
- China National Scholarship 2020
- Outstanding Bachelor of Hunan Province, China 2018
- China National Scholarship 2017