Fushuo Huo

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EDUCATION

Chongqing University, Chongqing, China — Sept. 2019 – Present
M.S. in Electrical Engineering
Advisor: Prof. Xuegui Zhu and Prof. Lei Zhang

China University of Mining and Technology, Jiangsu, China — Sept. 2015 – June 2019
B.S. in Electrical Engineering and Automation
Minor in Finance

PUBLICATIONS

1. Fushuo Huo, Xuegui Zhu, Qian Zhang, Ziming Liu, Wenchao Yu. Real-time One-stream Semantic-guided Refinement Network for RGB-Thermal Salient Object Detection. IEEE Transactions on Instrumentation and Measurement (**IEEE TIM**), **JCR Q1**, Accepted.

2. Fushuo Huo, Xuegui Zhu, Lei Zhang, Qifeng Liu, Yu Shu. Efficient Context-Guided Stacked Refinement Network for RGB-T Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology (**IEEE TCSVT**), **JCR Q1**, May 2022.

3. Fushuo Huo, Bingheng Li, Xuegui Zhu. Efficient Wavelet Boost Learning-Based Multi-stage Progressive Refinement Network for Underwater Image Enhancement. International Conference on Computer Vision Workshop (**ICCVW**) in Advances in Image Manipulation. Accepted.

4. Fushuo Huo, Xuegui Zhu, Hongjiang Zeng, Qifeng Liu, Jian Qiu. Fast Fusion-Based Dehazing With Histogram Modification and Improved Atmospheric Illumination Prior. IEEE Sensors Journal **(IEEE SJ**), **JCR Q2**, Feb. 2021.

5. Xuegui Zhu, Yu Shu, Chaopeng Luo, **Fushuo Huo,** Wang Zhu. Transient Electromagnetic Voltage Imaging of Dense UXO-Like Targets Based on Improved Mathematical Morphology. IEEE Access. Aug. 2020.

6. Fushuo Huo, et al. Real-time One-stream Semantic-guided Refinement Network for RGB-Thermal Salient Object Detection. **Submitted** to IEEE Transactions on Instrumentation and Measurement, JCR Q1.

RESEARCH INTERESTS

- Computer Vision: Imag Enhancement, Image Segmentation, 2D/3D Object Detection
- Machine Learning: Unsupervised Learning, Few/One-Shot Learning, Graph Neural Networks.
- Computational Visual Perception: Visual Saliency, Multi-Modality Fusion.

SELECTED HONORS

- 2021, National Scholarship of China, Ministry of Education.
- 2019, 2020, 2021, The First-class Academic Scholarship, Chongqing University.
- 2017, Second Prize of Jiangsu Mathematics Competition.
- 2016, National Encouragement Scholarship of China, Ministry of Education.

LANGUAGE AND TECH SKILLS

IELTS	7.0
DL/CV Tools	PyTorch, TensorFlow, Keras, OpenCV,
Programming Languages	Python, MATLAB, C, HTML, LaTeX

ACADEMIC SERVICES

Reviewers for IEEE TCSVT, IEEE Sensors Journal, IJCNN, and ICCVW