

Kunlong Zheng

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EDUCATION

Inner Mongolia University of Technology

09. 2020 – 06. 2023

- *M.S. in Information and Communication Engineering.*
- Mentors: *Professor Yifan Dong*
- Honors & Awards:
 - Academic Scholarship, Second Prize, Inner Mongolia University of Technology 2022
 - Academic Scholarship, Third Prize, Inner Mongolia University of Technology 2021
 - Academic Scholarship, First Prize, Inner Mongolia University of Technology 2020

Shandong Jiaotong University

09. 2015 – 06. 2019

- *B.E. in Electronic Information Engineering*
- Honors & Awards:
 - National English Contest for College Students, Category C, Second Prize 2019
 - Comprehensive Scholarship, Third Prize, Shandong Jiaotong University 2017
 - Comprehensive Scholarship, Third Prize, Shandong Jiaotong University 2016

RESEARCH & INDUSTRY EXPERIENCE

- **Object detection in remote sensing images based on background information integration** 12. 2021 – 06. 2023
- Responsibility: Conduct research into existing methods within the current field and engage in discussions of innovative ideas with my mentor. During this period, I completed the composition of three academic papers.
- **Research on 3D Data Collection in Dense Crowd Movement Scenarios** 04. 2023 – 05. 2023
- Responsibility: Conducted the conversion of Matlab algorithms for porting to the Python platform, thereby enabling the algorithm to interact with a wider range of Python algorithms.
- **Sugon Information Industry Co., Ltd. (Intership)** 04. 2022 – 07. 2022
- Responsibility: Participated in the development of a gout diagnosis algorithm based on the PyRadiomic method and Convolutional Neural Networks (CNN), achieving an accuracy rate of 87%; Participated in the development of a multi-category marine life recognition algorithm based on YOLO V5, contributing to the establishment of a benchmark for multi-category marine life recognition.
- **Publications:**
 - [1] A Method of Fusing Probability-Form Knowledge into Object Detection in Remote Sensing Images Kunlong Zheng, Yifan Dong*, Wei Xu, Yun Su, Pingping Huang. *Remote Sensing* (JCR Q1)
 - [2] A Scene Information Integrating Network For Object Detection In Remote Sensing Images Yifan Dong, Kunlong Zheng, Wei Xu, Yun Su, Pingping Huang International. *Conference on Geographic Information and Remote Sensing Technology* 2022. (EI Conference)
 - [3] Auto learner of objects co-occurrence knowledge for object detection in remote sensing images Kunlong Zheng, Yifan Dong, Wei Xu, Weixian Tan, Pingping Huang. Under Review of *IEEE Geoscience and Remote Sensing Letters* (JCR Q1)

ADDITIONAL INFORMATION

- **Skills:** Programming Proficient in: Python, Shell script Tools and Frameworks Pytorch, Scikit-learn, Tensorflow, Latex, Git, Microsoft Visio.
- **Certificates:** IELTS 7.5 (Listening 7.5, Reading 8.5, Writing 6.5, Speaking 6.5)
- **Other interests:** Love sports and explore new and interesting things.