

CHUXUAN CHEN

Huaiyin Institute of Technology
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EDUCATION

Huaiyin Institute of Technology

B.S. in Mechanical Design, Manufacturing and Automation

GPA: 85.04/100; 3.27/4.5

Jiangsu, China

Sep 2019 – July 2024

PUBLICATIONS

- [IEEE GRSL] **A lightweight SAR ship detector using end to end image preprocessing network and channel feature guided spatial pyramid pooling**
Chenxuan Chen, Yimin Zhang, Ronglin Hu, Yongtao Yu
IEEE Geoscience and Remote Sensing Letters, IF: 4.8, 2024
- [Remote sensing] **ESarDet: An Efficient SAR Ship Detection Method Based on Context Information and Large Effective Receptive Field**
Yimin Zhang, Chenxuan Chen (Co-first author), Ronglin Hu, Yongtao Yu
Remote sensing, IF: 5.0, 2023
- [ICARCE 2022] **YOLO-BTM: A Novel Shuttlecock Detection Method for Embedded Badminton Robots**
Yimin Zhang, Chenxuan Chen (Co-first author), Ronglin Hu
IEEE International Conference on Automation, Robotics and Computer Engineering (ICARCE), 2022

WORK EXPERIENCE

- Nanjing Iron and Steel Group Co*** ***Nanjing, China***
Smart Manufacturing Technology Intern, Facilities Division Jan.2024– Present
Mentor: Weifeng Zhang
Responsible for projects:
 - Inspection of steel surface defects

ACADEMIC EXPERIENCE

- Intelligent Technology Lab, Huaiyin Institute of Technology*** ***Jiangsu, China***
Research assistant, supervised by Assoc. Prof. Ronglin Hu January 2021 – Present
Research Topic: Real-time synthetic aperture radar ship detection in complex scenes
Improvement of the backbone network of YOLOX-tiny algorithm for better detection of ships in SAR images
Supervisor: Assoc. Prof. Ronglin Hu, Assoc. Prof. Yongtao Yu
Research Topic: Research on Visual Detection Technology for Small Targets in High-Speed Motion
Proposal of a deep learning-based detection method DG-YOLOX for object detection of small targets moving at high speed
Supervisor: Assoc. Prof. Ronglin Hu
Research Topic: Monocular stereo vision-based badminton robot
Overall design of robot and vision system design
Supervisor: Assoc. Prof. Ronglin Hu

HONORS AND AWARDS

- Second-class scholarship of Academic Excellence, Huaiyin Institute of Technology 2020 & 2021
- Excellent Student Award in Academics, Huaiyin Institute of Technology 2020 & 2021
- Third-class scholarship of Academic Excellence, Huaiyin Institute of Technology 2021 & 2022
- Third-class scholarship of Academic Excellence, Huaiyin Institute of Technology 2022 & 2023
- Winning Award in Jiangsu Province of China Undergraduate Computer Design Competition 2022
- Certificate of National Business English Translation Test (Intermediate-level Translator) 2021
- Pass with merit in the English Test for International Communication (Intermediate) 2020
- Second Prize for Band C in 2020 National English Competition for College Students 2020

INVITED TALKS AND MEDIA COVERAGE

- Invited participate in 2022 International Conference on Automation, Robotics and Computer Engineering (ICARCE) 2022
- Media Coverage on Scientific Research Achievements, Huaiyin Institute of Technology 2023