CHUXUAN CHEN

Huaiyin Institute of Technology
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EDUCATION

Huaiyin Institute of Technology   Jiangsu, China
B.S. in Mechanical Design, Manufacturing and Automation   Sep 2019 – July 2024
GPA: 85.04/100; 3.27/4.5

PUBLICATIONS

* indicates equal contribution

[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***, 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***, Ronglin Hu
IEEE International Conference on Automation, Robotics and Computer Engineering (ICARCE), 2022

ACADEMIC EXPERIENCE

- ***Intelligent Technology Lab, Huaiyin Institute of Technology***   ***Jiangsu, China***

  Research assistant, supervised by Assoc. Prof. Ronglin Hu   January 2021 – July 2024

  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