

# LIU, ZENG

▪Female ▪born in 24/ 10/ 2000, China ▪ +86 188-5187-2877 ▪ zl1024@sjtu.edu.cn

## EDUCATION

### SHANGHAI JIAO TONG UNIVERSITY

*Master of Information and Control*

SHANGHAI, CHN

*Sept 2021 – Present*

▪ **GPA:** 3.43 | 4.0

▪ **Honors:** School outstanding graduate, 1<sup>st</sup> Outstanding student scholarship, 2<sup>nd</sup> Academic Scholarship

### NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

*Bachelor of Detection, Guidance and Control Technology*

NANGJING, CHN

*Sept 2017 – Jun 2021*

▪ **GPA:** 3.8 | 5.0 (Top 15%)

▪ **Honors:** National Encouragement Scholarship(2019), 1<sup>st</sup> Academic Scholarship(2019), Outstanding student scholarship(2018-2021)

## PROFESSIONAL EXPERIENCE

### RESEARCH ON CONTINUATION TRACKIN

*Important participant, Algorithm design*

LIANYUNGANG, CHN

*Feb 2022 – Present*

▪ Research on multi-target tracking and track initiation algorithms based on multi-sensor

▪ Participate in the construction and integration of simulation software

### DESIGN OF COMPUTER PROGRAM FOR AUTOMATIC ASSEMBLY SYSTEM

*Head of software design, Building software structure*

LUOYANG, CHN

*Apr 2022 – July 2023*

▪ Completed the upper computer program architecture and programming of the automatic assembly system independently

▪ Realized joint debugging with hardware equipment and put it into engineering application

### RESEARCH ON MULTI UNMANNED BOAT FUSION DETECTION

*Important participant, data processing*

SHANGHAI, CHN

*Sept 2021 – Nov 2021*

▪ Processed real data from sensors such as radar and AIS, and fused different tracks

▪ Create an image detection dataset and assist in completing video detection based on neural networks

### CONSTRUCTION OF A MULTI-UAV COOPERATIVE FLIGHT SOFTWARE

*Research Content of Bachelor's Degree Graduation Project*

NANGJING, CHN

*Jan 2021 – Jun 2021*

▪ Design and complete a collaborative interaction graphical interface for flight data visualization

## PUBLICATION

L. Zeng, G. Xiao, C. Ding, and Y. He, "Track initiation based on adaptive gates and fuzzy Hough transform," Signal Image and Video Processing, 2023, 17, 4057–4065.

Z. Liang, J. Wang, G. Xiao, and L. Zeng, "FAANet: feature-aligned attention network for real-time multiple object tracking in UAV videos," Chinese Optics Letters, 2022, 20(8):081101.

Y. He, G. Xiao, C. Ding, and L. Zeng, "An optimal deployment method of heterogeneous sensors for multi-agent collaborative detection tasks," Aerospace Systems, 2023, 6(2), 249-257.

## ACTIVITIES

### THE SECOND NATIONAL INFORMATION INTEGRATION CHALLENGE

2<sup>ND</sup> PRIZE & 1<sup>ST</sup> IN DEPLOYMENT

*As a team member in an object detection and tracking competition*

*May 2022 – Sept 2022*

### WINTER OLYMPICS SPECIAL PRACTICE ACTIVITIES

Ji'AN, CHN

*Participate in teaching support volunteer activities to promote the Winter Olympics culture*

*Sep 2022 – Mar 2022*

## SKILLS & INTERESTS

- **Technical:** Proficient knowledge of Matlab and Labview programming, use Microsoft visual studio, Adobe Premiere Pro and Adobe Photoshop well. NCRE II (National puter Rank II Examination) and puter Rank II Examination in Jiangsu passed
- **Languages:** Fluent in Mandarin(Mandarin Level II, Grade A), Normal communication in English, a little Japanese
- **Interests:** Awarded in various extracurricular school level competitions, including choir singing, poetry creation, Chinese character dictation, recitation, video editing, cheerleading, etc