

SHUAIYI LI

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EDUCATION

Shanghai Jiao Tong University 2021 – Present

M.S. in Automation, expected Mar. 2024
GPA 3.84/4.0; Ranking 8/122
Advisor: Prof. Xiang Yin

Shanghai Jiao Tong University 2017 – 2021

B.S. in Automation
Grade 88.0/100; Ranking 15/104

RESEARCH & EXPERIENCE

Task Planning under Partial Observation Sep. 2021 – Present

SJTU Cyber-physical System Lab Supervisor: Prof. Xiang Yin

Mainly focus: High-level linear temporal logic task planning problem for intelligent agent under partial observation, including non-blocking controller synthesis [1], and active-sensing task planning algorithm design [2].

Medical Image Analysis Sep. 2020 – Jun. 2021

SJTU Institute of Image Processing and Pattern Recognition Advisor: Prof. Jie Yang

Mainly focus: Analyzing chromosomes from karyotype image, including extraction of centromere position and chromosome midline.

Adversarial Attack for Neural Network Aug. 2019 – Sep. 2020

SJTU Institute of Image Processing and Pattern Recognition Advisor: Prof. Xiaolin Huang

Mainly focus: Attack and data enhancement of colonoscopy polyp detector [3].

Publication

- [1] **Shuaiyi Li**, S. Li and X. Yin. “Synthesis of non-blocking controllers for linear temporal logic tasks under partial observations.” in 22nd IFAC World Congress, accepted, 2023.
- [2] **Shuaiyi Li**, M. Wei, S. Li and X. Yin. “Temporal Logic Task Planning for Autonomous Systems with Active Acquisition of Information.” in IEEE Trans. Intelligent Vehicles (T-IV), accepted, 2023.
- [3] Fan He, Sizhe Chen, **Shuaiyi Li**, et al. “Colonoscopic image synthesis for polyp detector enhancement via gan and adversarial training.” in IEEE 18th International Symposium on Biomedical Imaging (ISBI), 2021.

SKILLS

- Programming Languages: Python>C++>Matlab
- Frameworks & Tools: Pytorch, ROS
- Language: TOEFL (112/120, in 2023)
- Others: LaTeX, Markdown

HONORS AND AWARDS

Shanghai Jiao Tong University First Class Scholarship	2023
Shanghai Jiao Tong University First Class Scholarship	2022
Shanghai Jiao Tong University First Class Scholarship	2021