Sicong Jiang

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🎓 Education

Georgia Institute of Technology   Aug. 2019 – May. 2021
MS Electrical and Computer Engineering, GPA 3.7/4   *Atlanta, GA*

Northeastern University   Sep. 2015 – May. 2019
BS Engineering in Automation, GPA 90.1/100   *Shyenyang, China*

⬤ Research Experience

Intellient Vision and Automation Lab, Georgia Tech   Aug. 2019 – Present
Navigation Group Member   *Atlanta, GA*

> Applied a Markov Decision Processes(MDP) model to multi-agent exploration.Improved its reward function to achieve better exploration efficiency.
> Improved and applied DDPG/MADDPG-based algorithms to multi-agent formation control,navigation and obstacle avoidance.

The State Key Laboratory of Automation for Process Industries   May. 2018 – Jul. 2018
Undergraduate Research Assistant   *Shenyang, China*

> Combined auto encoder algorithm and the stochastic neural network to predict the quality index of hot-rolled steel.
> Negotiated data collection with company collaborators (China Baowu Steel Group).

Robotics Automation and Vision Laboratory, Northeastern University   Apr. 2017 – May. 2018
Research Assistant   *Shenyang, China*

> Developed a long-term tracking algorithm by using the filtered deep features and designed the re-detection mechanism to solve the drift problem in visual tracking.
> Tested the real-time tracking algorithm on turtlebot.

⚗ PUblications

> Zhang J, **Jiang S**, Zhang Y, et al. Long-term tracking algorithm using deep features and a single shot multibox detector[J]. Journal of Electronic Imaging, 2018, 27(5): 053019.
> **Jiang S**, Zhang J, Zhang Y, et al. Long-term tracking algorithm with the combination of multi-feature fusion and YOLO[C]//Chinese Conference on Image and Graphics Technologies. Springer, Singapore, 2018: 390-402.
> Bao J, Zhang Y, Zhang Y, Liu T, Zheng R, **Jiang S**. Long-term Tracking Based on Spatio-Temporal Context Model[C]//2018 IEEE International Conference on Information and Automation (ICIA). IEEE, 2018: 1611-1616.

🏆 Awards

2019 Outstanding Graduates, Northeastearn University (Top 3%)

2018 First-class Scholarship, Northeastearn University (Top 3%)

2017 National First Prize of China Undergraduate Mathematical Contest in Modeling,China Society for Industrial and Applied Mathematics (Top 1%)

⚙ Skills

Techniques Control Theory, Statistical Machine Learning, Robotics Dynamics, Image Processing

Programming Language Python, JAVA, MATLAB

Libraries Frameworks ROS, Simulink, Scikit-Learn, OpenCV/AI, Tensorflow