Weizhe Chen

UNDERGRADUATE STUDENT

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Education

Shanghai Jiao Tong University

Shanghai, China

HONORS BACHELOR OF COMPUTER SCIENCE

Sep 2017 - PRESENT

- Member of ACM class in SJTU, which is an elite CS program for 5 % talented student.
- My current research interest includes machine learning, reinforcement learning, multi-agent reinforcement learning, game theory, application
 machine learning, and AI for social good.
- First year GPA: 87.5/100, rank:11/48
- Second year GPA: 88.6/100, rank:10/48
- Third year GPA: 93.9/100, rank:5/46

Publications

Bi-level Actor-Critic for Multi-agent Coordination

AAAI 2020 Oral

HAIFENG ZHANG, WEIZHE CHEN, ZEREN HUANG, MINNE LI, YAODONG YANG, WEINAN ZHANG, JUN WANG

When to Follow the Tip: Security Games with Strategic Informants

IJCAI-PRICAI 2020

WEIRAN SHEN, WEIZHE CHEN, TAOAN HUANG, ROHIT SINGH, FEI FANG

Research Experience _____

AISOC Lab, Carnegie Mellon University

Remote research assistant to Prof.Fei Fang.

Learning to Combat Poaching: Lessons Learned from Field Deployment

- Give a prediction of find poaching activity in heatmap form and give a possible route planning result method with only satellite image and elevation data as input.
- Showed that neural networks are applicable in anti-poaching area.
- Did some study to help building human-AI trust.
- Proposed a novel mixed-integer linear programming-based approach to optimize multimodal patrol routes for a mix of driving and foot patrols.
- Paper submitted to IAAI-2020.

Reinforcement learning with Bayesian Game

- Extend the previous algorithm from repeated security game to stochastic Bayesian game.
- Use experiments to show the effectiveness of finding PBNE in stochastic Bayesian Games.
- Paper submitted to AAMAS-2021.

When to Follow the Tip: Security Games with Strategic Informants

- Wrote the code and conducted all the experiments.
- Paper accepted by IJCAI-PRICAI 2020.

APEX LAB, SHANGHAI JIAO TONG UNIVERSITY

Supervised by Prof. Yong Yu and Prof. Weinan Zhang.

Bi-level Actor-Critic for Multi-agent Coordination

HAIFENG ZHANG, WEIZHE CHEN, ZEREN HUANG, MINNE LI, YAODONG YANG, WEINAN ZHANG, JUN WANG

- Proposed an algorithm called Bi-AC which add asymmetric to multi-agent studies.
- Did a converge analysis of our Bi-AC algorithm that showed our algorithm can converge in very specific time.
- Experiment conducted in matrix game and a modified version of highway-env to show that the algorithm will result in a Stackelberg equilibrium which can be a potential better result for all agents comparing to a Nash equilibrium without any selection.
- Paper accepted by AAAI 2020 as oral presentation paper.

Honors and Awards _____

Rong Chang Innovation Scholarship

A reward for top 0.5% student in SJTU 2019

Team Member of Programming Contest Team Quasar

- 15th place in 'The 2018 CCPC final'.
- 2nd place in 'The 2018 ICPC Asia Nakhon Pathom Regional Contest'.
- 12th place in '2018 ICPC China Qingdao Provincial Programming Contest'.
- 4th place in '2018 CCPC Guilin Provincial Programming Contest'.

Team Member of Programming Contest Team Obsidian

• 3rd place in 'The 2018 ICPC China JiangSu Provincial Programming Contest'.

Team Member of Programming Contest Team Blazar

- 6th place in '2017 CCPC QinHuangDao Regional Contest'.
- 5th place in '2017 ACM ICPC Asia-Manila Regional Contest'.

Zhiyaun Honors Scholarship

A REWARD FOR TOP 5% STUDENT IN SJTU 2017, 2018, 2019

Shanghai Jiao Tong University Scholarship

Type B

A reward for top 5% student in SJTU

2018, 2019

Teaching Experience

Programming Contest Team of Shanghai Jiao Tong University

Student Co-coach Spring, Fall 2019

Machine Learning course (CS420) in Shanghai Jiao Tong University

TEACHING ASSISTANT Spring 2020