Xuxin Cheng

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Education / Awards

University of California, Berkeley, Berkeley, CA   07/2019 – Present

Visiting student, EECS; GPA: 3.94/4.0

- Selected Courses (All grad level): CS285 Deep Reinforcement Learning; CS194 Computer Vision; EECS206 Introduction to Robotics; EE127 Optimization Models; ME193 Legged Robots; ME 299 Individual Research

Beijing Institute of Technology, Beijing, China   09/2016 – 07/2020

B.S. in Automation Engineering; GPA: 91.5/100 (Rank 1/167)

- National Scholarship (Top 0.2%); DWIN Scholarship (Top 1%); Outstanding Student Scholarship (5 times)
- Graduation with honor: Outstanding Graduate of Beijing & BIT

Publications

Non-Refereed

- Zhongyu Li, **Xuxin Cheng**, Xue Bin Peng, Pieter Abbeel, Sergey Levine, Glen Berseth, Koushil Sreenath. "Reinforcement Learning for Robust Parameterized Locomotion Control of Bipedal Robots". Submitted to *IEEE International Conference on Robotics and Automation (ICRA)* (2021)

Refereed

- Fei Ye*, **Xuxin Cheng***, Pin Wang, Ching-Yao Chan. "Automated Lane Change Strategy using Proximal Policy Optimization-based Deep Reinforcement Learning". *IEEE Intelligent Vehicles Symposium (IV)* (2020)
- Tianyu Shi, Pin Wang, **Xuxin Cheng**, Ching-Yao Chan. "Driving Decision and Control for Automated Lane Change based on Deep Reinforcement Learning". *IEEE International Conference on Intelligent Transportation (ITSC)* (2019)

Posters

- Pin Wang, Fei Ye, **Xuxin Cheng**, Ching-Yao Chan. "Lane Change Strategy based on Meta Reinforcement Learning". *Berkeley Artificial Intelligence Research Annual Workshop* (2019)
- * denotes equal contribution

Experience

Hybrid Robotics Lab (HRL), UC Berkeley   01/2020-Present

Advisor: Koushil Sreenath & Sergey Levine

- Working on reinforcement learning of bipedal robot Cassie.

Partners for Advanced Transportation Technology (PATH), UC Berkeley   7/2019-02/2020

Advisor: Ching-Yao Chan

- Worked on advanced driver-assistance systems.

PKU Omni Smart Sensing Lab (POSS), Peking University   07/2018-12/2018

Advisor: Huijing Zhao

- Worked on traversable area segmentation of autonomous driving systems using inverse reinforcement learning.

Services

Peer reviewer for *IEEE Intelligent Vehicles Symposium (IV)* (2020)

Skills

Languages: Python, C++, JavaScript, HTML, Assembly Language
Softwares&Tools: MATLAB, ROS, Tensorflow, Pytorch, MuJoCo, PyBullet, Git, LaTeX