Wu Yuanyuan | Curriculum Vitae

> Status: Ph.D Candidate, Research Associate

Fields: Traffic management and optimization, Reinforcement Learning

> Tech: Python (Pytorch; TensorFlow), SUMO, Vissim, Matlab, SPSS

▶ Interests: Connected and Automated Vehicles, Traffic flow modeling, Dynamic traffic

assignment, Parking behavior under CAVs environment



Experience

2016 - 2020 Research Associate Tier 2 project: Connected and automated vehicles management at intersections FYP projects: Mentor; Cooperative intersection management for mixed traffic; Safety analysis of active mobility mode; Level of service acceptability matrix re-calibration for active mobility University Counsellor Southeast University Daily management of student affairs

Organization, management and coordination of student activities

Fducation

Luucau	JII	
2016 - 2020	Ph.D Candidate	Nanyang Technological University
	 Thesis: Intersection management strategies to realise Keywords: Autonomous intersection management; Mu Deep reinforcement learning; Queueing theory; Linear pr 	ulti-objective optimization; Mixed traffic;
2014 - 2016	Master Degree	Southeast University
	 Urban Transportation Planning and Management, Transit Planning, Shared-parking Outstanding Student Cadre, Alumni Scholarship, Enterprise Scholarship 	
2008 - 2012	Bachelor Degree	Southeast University
	Major in Surveying and Mapping EngineeringNational Endeavor Fellowship, Outstanding Graduates	s of School of Transportation

Research works

- Wu, Yuanyuan, Haipeng Chen, and Feng Zhu, "DCL-AIM: Decentralized coordination learning of autonomous intersection management for connected and automated vehicles," *Transportation Research Part C: Emerging Technologies* 103 (2019): 246-260.
- Wu, Yuanyuan, Feng Zhu, "Intersection capacity under mixed traffic environment with connected and automated vehicles." (submitted to *Transportation Research Part C: Emerging Technologies*).
- Wu, Yuanyuan, Feng Zhu, "Comparative study on roundabout and intersection management under connected and automated vehicles environment." (Working Paper)
- Wu, Yuanyuan, Feng Zhu, "Optimization of multiple conflicting objectives in intersection management for connected and automated vehicles." (Working Paper)