

学术报告会

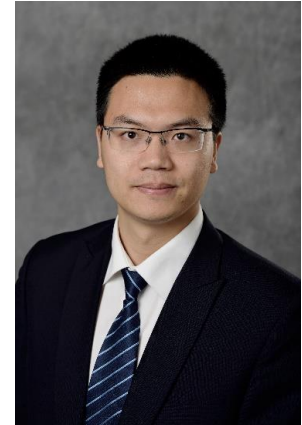
时间: 2018年1月3日(周四) 10:30-11:30

地点: 电院群楼2-410会议室

Future Mobility: Cloud-Enabled Automotive Decision-Making Systems

Dr. Zhaojian Li

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Abstract:

In this talk, I will first present the Vehicle-to-Cloud-to-Vehicle framework and discuss its opportunities and challenges. The focus of the talk will be the exploitation of automotive vehicles to crowd-source road information. In this research, we developed an optimal state estimator for systems driven by jump-diffusion process. The developed estimator, together with an input observer, was used to estimate road profile and detect road anomalies such as potholes and speed bumps. I will also present an evolving clustering algorithm that is used to process the anomaly reports. Future work on Reinforcement Learning and Connected and Autonomous Vehicles will also be discussed.

Biography:

Dr. Zhaojian Li is an Assistant Professor in the Department of Mechanical Engineering at Michigan State University. He obtained M.S. (2013) and Ph.D. (2015) in Aerospace Engineering (flight dynamics and control) at the University of Michigan, Ann Arbor. As an undergraduate, Dr. Li studied at Nanjing University of Aeronautics and Astronautics, Department of Civil Aviation, in China. Dr. Li worked as a research engineer at General Motors from January 2016 to July 2017. His research interest includes Connected and Automated Vehicles, Vehicle Dynamics and Control, Intelligent Transportation Systems, and Reinforcement Learning. Dr. Li was a recipient of the National Scholarship from China.