



**THE CHINESE UNIVERSITY OF HONG KONG**  
Department of Information Engineering  
*Seminar*

**Machine Learning for Autonomous Driving:  
Recent Advances and Future Challenges**

By  
**Dr. Erran Li**  
**Chief Scientist, Pony.ai**

**Date : 23<sup>rd</sup> October, 2018 (Tue)**  
**Time : 10:00am – 11:00am**  
**Venue : Room 1009, William M.W. Mong Engineering Building**  
**The Chinese University of Hong Kong**

*Abstract*

Tremendous progresses have been made in applying machine learning to autonomous driving. However, there are fundamental challenges ahead. In this talk, I will present recent advances in applying machine learning to solving the perception, prediction, planning and control problems of autonomous driving. I will discuss key research challenges in learning more robust and abstract representations, scene understanding, behavior prediction, and decision-making in complex real-world scenarios.

*Biography*

Dr. Li Erran Li is the chief scientist at Pony.ai and an adjunct professor at Columbia University. Most recently, he was with the perception team at Uber ATG and machine learning platform team at Uber. Before that, he was at Bell Labs. Dr. Li's current research interests are machine learning, computer vision and learning-based robotics. Dr. Li has a PhD from the Computer Science Department at Cornell University. Dr. Li is an IEEE Fellow and an ACM Fellow.

**\*\* ALL ARE WELCOME \*\***

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