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SEMINAR

Jointly organized by
Department of Civil Engineering &
Institute of Transport Studies, The University of Hong Kong
Hong Kong Society for Transportation Studies

Autonomous Driving, Future Transport and the Simulation Studies

Professor Jianping Wu
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Date: March 14, 2019 (Thursday)
Time: 6:30 p.m. - 7:30 p.m.
Venue: Room 6-12B, Haking Wong Building, The University of Hong Kong

ABSTRACT

According to McKinsey's 2017 forecast, in the next five years, SAE 4-class autonomous vehicles may appear, and it takes about 10 years to achieve SAE 5-level fully automatic driving. In the era of autonomous driving full implementation, our roads may no longer be congested, our roads may be much safer than today, and people's lifestyles and travel behaviors will change dramatically. However, on the road to autonomous driving and future transport system, we will face many challenges. One of the key challenges is that from all human driving traffic system to all autonomous driving system there is a long period time when the roads will have mixed traffic of human driving and autonomous driving. How do autonomous driving vehicles interact with human driving vehicles to ensure a safe and efficient transport system? How do our road systems and transportation systems change to accommodate these changes? Many of these issues will need extensive research and investigation, and microscopic traffic simulation has shown as a powerful tool for such studies..

ABOUT THE SPEAKER

Jianping Wu, PhD and Professor in the School of Civil Engineering at Tsinghua University, China, Director of Tsinghua University - University of Cambridge - Massachusetts Institute of Technology Center for Future Transport Research, the "Cheung Kong Scholar" Professor, and the National “Thousand Talents” Expert. Main research interests: i) Smart city and smart transport, ii) Traffic modeling and simulation, and iii) Sustainable transport system. He has been the main investigator for over 50 research projects and authored and co-authored over 300 papers in international journals and conferences. Other main activities include Member of WFEO (World Federation of Engineering Organizations) Environment and Engineering Committee, Fellow of IET (Institute of Engineering and Technology, the UK), Associate Editor to IET ITS Journal, Executive Director of China Association of City Studies, Executive Director of China Association of Simulation, Smart Airport Advisor to Civil Aviation Administration of Ministry of Transport, China, and Transport Adviser to Beijing, Hangzhou, Nanning and Haikou municipal governments.

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