



RESEARCH INSTITUTE  
FOR SUSTAINABLE URBAN DEVELOPMENT  
可持續城市發展研究院



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



**Workshop on Smart Mobility and Big Data Analytics**  
**RISUD Annual International Symposium 2019 (RAIS 2019)**  
**Research Institute for Sustainable Urban Development (RISUD)**  
**The Hong Kong Polytechnic University**

**Date:** 26 November (Tuesday)

**Time:** 9:00 am- 6:00 pm

**Venue:** 5/F, Block Y, The Hong Kong Polytechnic University, Hung Hom, Kowloon

**Workshop co-chairs:** Prof. Anthony Chen and Dr. Yang Xu

<b>Session 1 (Session Chair: Prof. Anthony Chen)</b>	
9:00 – 10:30	<b>Metro system disruption management: Initiation of substitute bus services under uncertain system recovery time</b> <i>Hong Lo (Hong Kong University of Science and Technology)</i>
	<b>Emerging technologies and data for transportation applications and beyond: Past, current and future</b> <i>Cynthia Chen (University of Washington)</i>
	<b>Big data for smart mobility – Some practices and thoughts</b> <i>Yang Xu (The Hong Kong Polytechnic University)</i>
<b>10:30 – 10:50</b>	<b>Coffee Break (Foyer 3/F, Block Y)</b>
<b>Session 2 (Session Chair: Prof. Hong Lo)</b>	
10:50 – 12:20	<b>A mobility network approach to identify and anticipate large crowd gatherings</b> <i>Pu Wang (Central South University)</i>
	<b>Can TODness improve (expected) performances of TOD? An exploration facilitated by non-traditional data</b> <i>Jiangping Zhou (The University of Hong Kong)</i>
	<b>Nature and causes of urban traffic congestion – A data analytic approach</b> <i>Andy Chow (City University of Hong Kong)</i>
<b>12:30 – 14:00</b>	<b>Lunch (Staff Restaurant 南北小廚 4/F, Communal Building)</b>

<b>Session 3 (Session Chair: Dr. Tony Zhuge)</b>	
<b>14:00 – 15:30</b>	<b>An efficiency paradox of uberization</b> <i>Yu (Marco) Nie (Northwestern University)</i>
	<b>Deep reinforcement learning network for traffic light cycle control</b> <i>Guiling (Grace) Wang (New Jersey Institute of Technology/PolyU)</i>
	<b>Investigating the public opinion of cross-border transport infrastructures through social media</b> <i>Sylvia He (Chinese University of Hong Kong)</i>
<b>15:30 – 15:50</b>	<b>Coffee Break (Foyer 3/F, Block Y)</b>
<b>Session 4 (Session Chair: Dr. Yang Xu)</b>	
<b>15:50 – 17:30</b>	<b>Connecting the city: A three-dimensional pedestrian network of Hong Kong</b> <i>Guibo Sun (The University of Hong Kong)</i>
	<b>Transportation electrification in the urban and suburban districts of Beijing: Evidence from GPS trajectory data on electric vehicle</b> <i>Chengxiang (Tony) Zhuge (The Hong Kong Polytechnic University)</i>
	<b>Panel Discussion</b>

**\*\*\* All Interested Are Welcome \*\*\***

For further information, please contact Prof. Anthony Chen at Tel. 3400-8327.

Free Admission. Please reserve your seat with Ms. Connie F.Y. Lam by email: [fyc.lam@polyu.edu.hk](mailto:fyc.lam@polyu.edu.hk).