

## Detailed Schedule

### Day 2, 19 October 2018 (Friday)

Registration (starts at 08:30), Foyer, S420 Series, Level 4, Phase One (Old Wing), HKCEC

Exhibition (09:30 - 17:00), Foyer, S420 Series, Level 4, Phase One (Old Wing), HKCEC

- 1) **MTR Corporation Limited**
- 2) **Urban.Systems Company Limited**
- 3) **Esme One (Asia) Limited**
- 4) **Chung Shing Taxi Limited - Syncab**
- 5) **Suffice Industrial Technology Limited**

Keynote Session 3 (09:30 - 10:30), S421, Level 4, Phase One (Old Wing), HKCEC

Implementing Smart Mobility: Insights from the Government and the Academia

Session Chair: **Professor S.C. WONG**

*Francis S Y Bong Professor in Engineering and Chair of Transportation Engineering, Department of Civil Engineering, The University of Hong Kong*

Smart Mobility for Hong Kong - The Vision, Challenges and Strategy

**Ms. Mable CHAN, JP**, *Commissioner for Transport, Transport Department, The Government of the Hong Kong Special Administrative Region*

Explaining Urban Network Capacity - A First Attempt

**Professor Kay W. AXHAUSEN**, *Institute for Transport Planning and Systems (IVT), ETH Zürich, Switzerland*

Coffee Break (10:30 - 11:00)

Keynote Session 4 (11:00 - 12:00), S421, Level 4, Phase One (Old Wing), HKCEC

Innovations in Smart Transport and Logistics: Lessons from Europe and Beyond

Session Chair: **Dr. Venus LUN**

*President, The Chartered Institute of Transport and Logistics in Hong Kong*

Digitalization and Maritime Transport: Technological Progress Will Never be as Slow as Today

**Dr. Jan HOFFMANN**, *Chief, Trade Logistics Branch, Division on Technology and Logistics, United Nations Conference on Trade and Development*

Competitive Car Sharing in Smart Mobility

**Professor Stefan MINNER**, *Chair of Logistics and Supply Chain Management, School of Management, Technical University of Munich, Germany*

Lunch (12:00 - 13:30), Chancellor Room, Level 4, Phase One (Old Wing), HKCEC

Showcases (13:30 - 15:30), S421, Level 4, Phase One (Old Wing), HKCEC

- 1) **Urban.Systems Company Limited**
- 2) **Esme (One) Asia Limited**

Parallel Session 13 (13:30 - 15:00), S423, Level 4, Phase One  
(Old Wing), HKCEC

Transport & Environment II

Session Chair: **Professor LING Kar-kan**

*Honorary Professor, Department of Urban Planning & Design, The University of Hong Kong*

Development of a Carbon Footprint Model for Attaining a Low Carbon Economy from a Transportation Perspective

Eugene WONG, **Stuart SO**

*Hang Seng Management College, Hong Kong*

The Making of Walkable Hong Kong: Using Three-dimensional Pedestrian Network to Connect the High Density Built Environment

**Guibo SUN**

*The University of Hong Kong*

Insights into the Effects of Roadway Network Centrality on Street-level PM2.5 Using Mobile Monitoring in Guangzhou, China

**Rongping LIN**, Suhong ZHOU, Xiaopei YAN

*Sun Yat-sen University, Guangzhou*

Parallel Session 14 (13:30 - 15:00), S424, Level 4, Phase One  
(Old Wing), HKCEC

Electric Vehicles II

Session Chair: **Professor K.T. CHAU**

*Professor and Head, Department of Electrical and Electronic Engineering, The University of Hong Kong*

Beyond Electric Vehicles - A Visionary Picture of an Energy Platform

**C.T. WAN**, T.C. YEE, W.K. LEUNG

*The Hongkong Electric Company, Limited*

Review of Hong Kong EV Market in Sales, Government Policy,  
Challenges and Opportunities

Jiageng RUAN<sup>a</sup>, Yuhan HUANG<sup>a</sup>, **Edward F.C. CHAN**<sup>b</sup>, W.C. MOK<sup>c</sup>

<sup>a</sup>*University of Technology Sydney, Australia*

<sup>b</sup>*Hong Kong E-Vehicles Business General Association Limited*

<sup>c</sup>*The University of Hong Kong*

Optimizing Location of Car Sharing Stations Based on Potential  
Travel Demand and Present Operation Characteristics: The Case of  
Chengdu

**Yu CHENG**, Xu CHEN, Xiaohua DING, Linting ZENG

*Shanghai Electric Vehicle Public Data Collecting, Monitoring and  
Research Center, Shanghai*

Parallel Session 15 (13:30 - 15:00), S425, Level 4, Phase One  
(Old Wing), HKCEC

Smart Traffic Management II

Session Chair: **Mr. LAM Sau-sang, Samson**

*Assistant Commissioner (Planning), Transport Department, The  
Government of the Hong Kong Special Administrative Region*

Journey of MTR to Smart Railway Operations

**Allen DING**

*MTR Corporation Limited*

Implementing Real-time Traffic Management, Traffic Prediction and  
Coordinated Adaptive Signal Control System in Taichung City with PTV  
Group Solution

**Hui-Sheng FENG**

*Bureau of Transportation, Taichung City Government*

Parallel Session 16 (13:30 - 15:00), S426, Level 4, Phase One  
(Old Wing), HKCEC

Big Data Applications II

Session Chair: **Professor Donggen WANG**

*Head and Professor, Department of Geography, Hong Kong Baptist University*

"Familiar Strangers" in Beijing: Implications, Visualisation and Determinants

**Jiangping ZHOU**

*The University of Hong Kong*

Tracking Job and Housing Dynamics with Smartcard Data

**Jie HUANG**<sup>a</sup>, David LEVINSON<sup>b</sup>, Jiaoe WANG<sup>a</sup>, Jiangping ZHOU<sup>c</sup>, Zi-jia WANG<sup>d</sup>

<sup>a</sup>*Chinese Academy of Sciences, Beijing*

<sup>b</sup>*University of Sydney, Australia*

<sup>c</sup>*The University of Hong Kong*

<sup>d</sup>*Beijing Jiaotong University, Beijing*

Research on Job-housing Space Based on Combination of Big and Small Data: Case Study in Changzhou, China

**Xiao QIN**, Feng ZHEN, Jing QIU

*Nanjing University, Nanjing*

Parallel Session 17 (13:30 - 15:00), S427, Level 4, Phase One  
(Old Wing), HKCEC

Automation

Session Chair: **Professor Mei-Po KWAN**

*Professor, Department of Geography and Geographic Information Science, University of Illinois at Urbana-Champaign (UIUC), U.S.A.*

The Impacts of Autonomous Vehicle on Residential Location Choice Behavior: A Multitasking Perspective

**Ryusei KAKUJO**, Makoto CHIKARAISHI, Akimasa FUJIWARA

*Hiroshima University, Japan*

Autonomous Vehicle Development and the Implications for Future Cities

**Rosana W.M. WONG**

*Smart City Consortium, Hong Kong*

Parallel Session 18 (13:30 - 15:00), S428, Level 4, Phase One (Old Wing), HKCEC

Vehicle-sharing II

Session Chair: **Professor David BANISTER**

*Professor Emeritus of Transport Studies, School of Geography and the Environment, The University of Oxford, U.K.*

The App-based Shared Bicycle in Multi-modal Transport in Beijing

**John ZACHARIAS**, Si'an MENG

*Peking University, Beijing*

Eliciting Prosocial Behavior in Dockless Bike Sharing Programs: Effects of Social Benefits Priming and Moral Regulatory Orientation

**Xinwei WANG<sup>a</sup>**, Xue WANG<sup>b</sup>

*<sup>a</sup>University of Auckland, New Zealand*

*<sup>b</sup>Shenzhen Polytechnic, Shenzhen*

Coffee Break (15:00 - 15:30)

Parallel Session 19 (15:30 - 17:00), S423, Level 4, Phase One  
(Old Wing), HKCEC

Port & Shipping Logistics

Session Chair: **Professor Mike LAI**

*Associate Dean (Academic Support), Faculty of Business, The Hong Kong Polytechnic University*

Software Strategies for Existing Terminal Operators; Basic Things Before You Start

**Margaret HARRIS**

*ContainerCo. (NZL) Limited, New Zealand*

Collaborative Optimization of Berth Allocation and Yard Storage in Container Terminals

**Wen-wen GUO**, Ming-jun JI, Hui-ling ZHU

*Dalian Maritime University, Dalian*

LNG Bunkering Port Selection Adopting Consistent Fuzzy Preference Relation (CFPR) Method

Gi Tae YEO, **Wen LU**, Sung Hoon PARK, Jae-Gyun OH, Tae-Hyun NAM, Tae-Hyeon YANG

*Incheon National University, Korea*

Parallel Session 20 (15:30 - 17:00), S424, Level 4, Phase One  
(Old Wing), HKCEC

Big Data Applications III

Session Chair: **Professor C.K. SHUM**

*Professor & Distinguished University Scholar, Division of Geodetic Science, School of Earth Sciences, The Ohio State University, U.S.A.*

A Comparative Analysis of Journey Time from Google Maps and Intelligent Transport System in Hong Kong

Zhixiang HE, **Chi-Yin CHOW**, Jia-Dong ZHANG

*City University of Hong Kong*

Transport Big Data Analytics  
**Clement HO**, Cecil WONG, Rita HO  
*Ove Arup & Partners Hong Kong Limited*

Big Data Analytics to Enhance Railway Operations Management  
**Felix NG**  
*MTR Corporation Limited*

Parallel Session 21 (15:30 - 17:00), S425, Level 4, Phase One  
(Old Wing), HKCEC

Smart Traffic Management III

Session Chair: **Professor Kay W. AXHAUSEN**  
*Professor of Transport Planning and Director of Institute for Transport  
Planning and Systems, Eidgenössische Technische Hochschule (ETH),  
Zürich*

The Integral Continuous Flow Mode in Urban Transportation -  
Breakthrough and Challenge  
Yi ZHAO, **Qijie YUAN**, Yong WANG  
*Shanghai Dijie Technology Company, Limited, Shanghai*

Multi-Agent System and Telematics Based Driving Active Service  
Modeling and Simulation  
Jun LIANG<sup>a</sup>, **Xu CHEN**<sup>a</sup>, Xiang GAO<sup>a</sup>, Xiao-xia XIONG<sup>a</sup>, Long CHEN<sup>a</sup>, Ning  
ZHU<sup>b</sup>, Mei-ling HE<sup>a</sup>  
<sup>a</sup>*Jiangsu University, Zhenjiang*  
<sup>b</sup>*Shizuoka Institute of Science and Technology, Japan*

A Three-frame Differencing Method for Vehicle Detection under All-  
weather Conditions  
Zi YANG, **Lilian PUN-CHENG**  
*The Hong Kong Polytechnic University*



Parallel Session 22 (15:30 - 17:00), S426, Level 4, Phase One  
(Old Wing), HKCEC

Sustainable Mobility III

Session Chair: **Professor Kelly J. CLIFTON**

*Professor of Civil and Environmental Engineering, Portland State  
University, U.S.A.*

Shaping the Future Travel Experience with Innovation and Technology

**Chris CHAN**

*Airport Authority Hong Kong*

Promoting Walkability in Hong Kong Through Walking Path  
Information in Mobile App

Alex Ka-kit AU<sup>a</sup>, Ricky Lai-yin TANG<sup>a</sup>, **Lorraine CHU<sup>b</sup>**

*<sup>a</sup>Transport Department, The Government of the Hong Kong Special  
Administrative Region*

*<sup>b</sup>Mappa Systems Limited*

A Case Study of Children's Active Travel to School: Insights for Smart  
Mobility in Hong Kong

**Kevin Y.K. LEUNG**, Becky P.Y. LOO

*The University of Hong Kong*

Parallel Session 23 (15:30 - 17:00), S427, Level 4, Phase One  
(Old Wing), HKCEC

Vehicle-sharing III

Session Chair: **Mr. LAW Hing-sun, Michael**

*Assistant Commissioner (Urban), Transport Department, The  
Government of the Hong Kong Special Administrative Region*

Smart Monitoring Framework for Automated Dockless Rental Bicycles

Tin-cheung SHEA, Kwok-leung WONG, **Chak-kwan WONG**

*Transport Department, The Government of the Hong Kong Special  
Administrative Region*

Bicycle Sharing: Risk of Current Market and Value of Trail-oriented Development

**Philip WONG**

*The Hong Kong Polytechnic University*

Parallel Session 24 (15:30 - 17:00), S428, Level 4, Phase One (Old Wing), HKCEC

Transport Optimization

Session Chair: **Professor Bo HUANG**

*Professor, Department of Geography and Resource Management, The Chinese University of Hong Kong*

Bike-and-ride Service Design for Profit Maximization in a Linear Monocentric City

**C.S. SHUI, W.Y. SZETO**

*The University of Hong Kong*

*The University of Hong Kong Shenzhen Institute of Research and Innovations*

Travel Demand Prediction using Deep Multi-Scale Convolutional LSTM Network

**Kai Fung CHU, Albert Y.S. LAM, Victor O.K. LI**

*The University of Hong Kong*

Parking Initiatives for Private Cars and Commercial Vehicles in Hong Kong

Simon LAU, Jimmy CHAN, **Peter FUNG**

*Transport Department, The Government of the Hong Kong Special Administrative Region*

Closing Session (17:00 - 17:30), S421, Level 4, Phase One (Old Wing), HKCEC