

Detailed Schedule

Day 1, 18 October 2018 (Thursday)

Registration (starts at 08:15), Foyer, S420 Series, Level 4, Phase One (Old Wing), Hong Kong Convention & Exhibition Centre (HKCEC)

Exhibition (09:00 - 18:00), Foyer, S420 Series, Level 4, Phase One (Old Wing), HKCEC

- 1) **MTR Corporation Limited**
- 2) **Microsoft**
- 3) **ESRI China (Hong Kong) Limited**
- 4) **Hongkong International Terminals Limited**
- 5) **Suffice Industrial Technology Limited**

Opening Session (**08:45** - 10:00), S421, Level 4, Phase One (Old Wing), HKCEC

Welcome Messages

Professor Becky P.Y. LOO, *Chair, Conference Organizing Committee*

The Hon Mrs. Carrie LAM CHENG Yuet-ngor, *GBM, GBS, Chief Executive of the Hong Kong Special Administrative Region*

Professor ZHANG Xiang, *President and Vice-Chancellor, The University of Hong Kong*

Mr. Keith NEWTON, *International Secretary General, The Chartered Institute of Logistics and Transport*

Mr. CHAN Fan, Frank, *JP, Secretary for Transport and Housing, The Government of the Hong Kong Special Administrative Region*

Keynote Session 1 (10:00 - 10:30), S421, Level 4, Phase One (Old Wing), HKCEC

Towards Smart Cities of the Future I: Setting the Scene

Session Chair: **Professor Anthony G.O. YEH**

Chan To-Hann Professor in Urban Planning and Design and Chair Professor, Department of Urban Planning and Design, The University of Hong Kong

The Three Transportation Revolutions and How They Will Be Transformational

Professor Daniel SPERLING, *Founding Director, Institute of Transportation Studies, The University of California, Davis, U.S.A.*

Coffee Break (10:30 - 10:45)

Keynote Session 2 (10:45 - 12:15), S421, Level 4, Phase One (Old Wing), HKCEC

Towards Smart Cities of the Future II: Some Guiding Thoughts

Session Chair: **Professor Becky P.Y. LOO**

Professor and Head, Department of Geography & Director, Institute of Transport Studies, The University of Hong Kong

Mobility in Future Cities - Sustainable and Smart?

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

Geospatial Technologies for Smart Mobility

Professor Mei-Po KWAN, *Department of Geography and Geographic Information Science, The University of Illinois at Urbana-Champaign, U.S.A.*

MTR's "Rail Plus Property" Business Model

Mr. Lincoln LEONG, *Chief Executive Officer, MTR Corporation Limited*

Lunch (12:15 - 13:30), Chancellor Room, Level 4, Phase One (Old Wing), HKCEC

Luncheon Sponsor - Microsoft

Artificial Intelligence and its Role in Our Society

Mr. Fred SHEU, *National Technology Officer, Microsoft Hong Kong*

Showcases (13:30 - 16:30), S421, Level 4, Phase One (Old Wing), HKCEC

1) **MTR Corporation Limited**

2) **ESRI China (Hong Kong) Limited**

3) **Hongkong International Terminals Limited**

Parallel Session 1 (13:30 - 15:00), S423, Level 4, Phase One (Old Wing), HKCEC

Sustainable Mobility I

Session Chair: **Mr. W.L. TANG**

Deputy Commissioner (Planning and Technical Services), Transport Department, The Government of the Hong Kong Special Administrative Region

Short to Medium Distance Urban Mobility in the 3rd Dimension: 'Elevated Connectors' - a Comparison of Skywalks, Gondola Lifts, People Movers and their Effects on Land Use and Transportation Efficiency in the Urban Realm

Arnd BAETZNER

University of St.Gallen, Switzerland

ETH Zürich, Switzerland

Challenges and Opportunities of Developing Smart Mobility in Macao: Perspectives of Government Departments and Agencies

Kuok Hou NG^a, **Weng Keong KU^b**, **Kun Peng KOU^b**, **Soi Hoi LAM^b**, **Ka Io WONG^c**

^a*The Chartered Institute of Logistics and Transport in Macao*

^b*University of Macau, Macau*

^c*National Chiao Tung University, Hsinchu*

Satellite-based Environmental Monitoring System of Smart Cities
C.K. SHUM^a, Lei ZHANG^b, Tarig ALI^c, Becky P.Y. LOO^d, Rosana W.M. WONG^e

^a*The Ohio State University, U.S.A.*

^b*The Hong Kong Polytechnic University*

^c*American University of Sharjah, U.A.E.*

^d*The University of Hong Kong*

^e*Smart City Consortium, Hong Kong*

Parallel Session 2 (13:30 - 15:00), S424, Level 4, Phase One
(Old Wing), HKCEC

Smart Transport Policies

Session Chair: **Dr. Winnie TANG**

Founder and Chairman, ESRI China (Hong Kong) Limited

The Smart Mobility Roadmap for Hong Kong

S.C. WONG, Y.C. LI, S. XIE

The University of Hong Kong

Achieving a Fossil-free Commercial Transport System in the Timeframe
of the Paris Agreement Target is not only Possible, but also Financially
Attractive from a Societal Perspective

Alexander MASTROVITO

Scania Group

Promotion of In-vehicle Units in Hong Kong by the Transport
Department

Andy CHAN^a, **Michael LAW^b**, Joe HSIE^b

^a*AECOM Asia Company Limited*

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

Parallel Session 3 (13:30 - 15:00), S425, Level 4, Phase One
(Old Wing), HKCEC

E-commerce & Urban Logistics I

Session Chair: **Professor Stefan MINNER**

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

A Case Study of Smart Locker Networks in Asia As a Method of
Improving Smart Movement Within Cities

Jared POOLE, **Christian SECCI**

Pakpobox Hong Kong Limited

Logistics Market Spatial Structure and Inter-city Freight Mobility in
China: A Geographical Perspective

Mengyao REN^a, Zuopeng XIAO^b, James J. WANG^a

^a*City University of Hong Kong*

^b*Harbin Institute of Technology (Shenzhen)*

Sailing Speed and Fleet Deployment Optimization Under a Time-based
Freight Rate Strategy

Yuwei XING, Hualong YANG, Wei SONG, Xuefei MA

Dalian Maritime University, Dalian

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

Public Transport Management

Session Chair: **Mr. Morris CHEUNG**

Vice Chairman and Board Director, Key Direction Limited

Enabling Key Decision-makers to Embrace New Technologies -
Innovation to Implementation in the Realm of Public Transport

Neville BINNING^a, Marie VERSCHUER^b, Peter NEWMAN^c

^a*EDAB Consulting Pty Limited*

^b*Bodhi Alliance Pty Limited*

^c*Curtin University, Australia*

Exploring the Interaction Mechanism of Dockless Bike-sharing and Public Bicycle System

Yiling SUN^a, De TONG^a, Xiaoguang WANG^b

^a*Peking University, Beijing*

^b*Central Michigan University, U.S.A.*

How MTR's Rail + Property Model Contributes to Smart Mobility

Steve YIU

MTR Corporation Limited

Parallel Session 5 (13:30 - 15:00), S427, Level 4, Phase One (Old Wing), HKCEC

Transport & Environment I

Session Chair: **Mr. W.H. TSANG**

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

Electronic Road Pricing - A Smart Way to Travel

Simon LAU, King-man TSANG, **Nana SHIU**

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

Real-Time Integrated Re-scheduling for Public Transit

Yong-Hong KUO^a, Henry K.F. CHEUNG^b, David S.W. LAI^c, Janny M.Y. LEUNG^d

^a*The University of Hong Kong*

^b*The Chinese University of Hong Kong*

^c*Vrije Universiteit Amsterdam, The Netherlands*

^d*The Chinese University of Hong Kong (Shenzhen)*

Parallel Session 6 (13:30 - 15:00), S428, Level 4, Phase One
(Old Wing), HKCEC

Vehicle-sharing I

Session Chair: **Professor Hong K. LO**

*Chair Professor and Head, Department of Civil and Environmental
Engineering, The Hong Kong University of Science and Technology*

An Artificial Bee Colony Algorithm for the Dynamic Taxi Sharing
Problem

Xingbin ZHAN^a, **W.Y. SZETO**^{ab}

^a*The University of Hong Kong*

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

Predicting Shared-car Use and Examining Nonlinear Effects Using
Gradient Boosting Regression Trees

Songhua HU, **Peng CHEN**, Hangfei LIN, Xiaohong CHEN

Tongji University, Shanghai

Numerical Simulation on the Feasibility of Ride-Sharing System in Rural
Areas of Japan

Takatoshi MORIWAKI, Makoto CHIKARAISHI, Akimasa FUJIWARA

Hiroshima University, Japan

Coffee Break (15:00 - 15:30)

Parallel Session 7 (15:30 - 17:00), S423, Level 4, Phase One
(Old Wing), HKCEC

Big Data Applications I

Session Chair: **Professor FUNG Tung**

Researcher (APVCFT), Associate Vice-President's Office

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

Nature and Causes of Urban Traffic Congestion - A Data Analytic Approach

Andy H.F. CHOW

City University of Hong Kong

Building Individual Travel Chains Using Traffic Surveillance Data

Yun YUE, **Zi YANG**, Xin PEI, Danya YAO

Tsinghua University, Beijing

Riding on Mobile and Big Data Applications: New Railway Customer Experience

Annie LEUNG

MTR Corporation Limited

Parallel Session 8 (15:30 - 17:00), S424, Level 4, Phase One (Old Wing), HKCEC

Resilience

Session Chair: **Professor P.C. LAI**

Professor, Department of Geography, The University of Hong Kong

Characterising Traffic Collision Hotspots with Weibo Data: A Case Study of Haining, China

Jinzi WANG, Shenjun YAO, Jianping WU

East China Normal University, Shanghai

Installation of Traffic Detectors on Strategic Routes in Hong Kong

Shirley LEUNG, **Gary LEUNG**

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

Criticality of Cyber Security to Smart Railway Operations

H.W. CHAN, Joyce CHAN

MTR Corporation Limited

Parallel Session 9 (15:30 - 17:00), S425, Level 4, Phase One
(Old Wing), HKCEC

Smart Traffic Management I

Session Chair: **Dr. Albert LAM**

Chief Scientist and Acting Chief Technology Officer, Fano Labs

An Intelligent Pedestrian Detector at Traffic Light Junctions Based on
Depth Cameras for Pedestrian Count and Classification

Kin Ho HUNG

Vocational Training Council, Hong Kong

Digital Transformation with AI for Transportation and Logistics
Industry

Fred SHEU

Microsoft Hong Kong

Parallel Session 10 (15:30 - 17:00), S426, Level 4, Phase One
(Old Wing), HKCEC

Electric Vehicles I

Session Chair: **Professor Daniel SPERLING**

*Founding Director, Institute of Transportation Studies, University of
California, Davis, U.S.A.*

Electric Vehicle (EV) Charging Infrastructure to Support Green
Motoring in Hong Kong

John CHAN

CLP Power Hong Kong Limited

A Journey of Electric Vehicle Development Since Time Zero

K.M. LAW

The Institute of The Motor Industry Hong Kong

Alternative Fuel Vehicles for Future

Andrew CHAN

The Committee of New Energy Automobile

Parallel Session 11 (15:30 - 17:00), S427, Level 4, Phase One
(Old Wing), HKCEC

Sustainable Mobility II

Session Chair: **Ms. Rosana W.M. WONG**

Executive Director, Yau Lee Holdings Limited

Job Accessibility and Commuting Travel: A Spatio-Temporal Analysis
and a Case Study in Hong Kong

Becky P.Y. LOO, **Ka Ho TSOI**

The University of Hong Kong

Light Rail Smart Mobility Solutions

Kevin KIANG

MTR Corporation Limited

Challenges and Opportunities of Developing Smart Mobility in Macao:
Perspectives of Residents and Visitors

Ka Man LOI^a, Weng Keong KU^b, Kun Peng KOU^b, Soi Hoi LAM^b, Ka Io
WONG^c

^a*The Chartered Institute of Logistics and Transport in Macao*

^b*University of Macau, Macau*

^c*National Chiao Tung University, Hsinchu*

Parallel Session 12 (15:30 - 17:00), S428, Level 4, Phase One
(Old Wing), HKCEC

E-commerce & Urban Logistics II

Session Chair: **Mr. Alfred LAM**

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

Smart Mobility - Greening HK's Urban eCommerce Logistics

Eric M.S. WONG

The Chartered Institute of Logistics and Transport in Hong Kong

Smart E-shopping and Travel Behaviour Modelling in Selected Areas of Lagos, Nigeria

O.O. AGUNLOYE, Suliat Ifedolapo ADEGOKE

University of Lagos, Nigeria

E-commerce and the Demand for Shopping Trips

Pengyu ZHU

The University of Hong Kong

Break (17:00 - 18:00)

Gala Dinner (18:00 - 21:00), Concord Room, 8/F, Renaissance Harbour View Hotel

Reception: 18:00

Dinner starts: 18:30