Detailed Schedule

Day 1, 18 October 2018 (Thursday)

<table>
<thead>
<tr>
<th>Registration (starts at 08:15), Foyer, S420 Series, Level 4, Phase One (Old Wing), Hong Kong Convention &amp; Exhibition Centre (HKCEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhibition (09:00 - 18:00), Foyer, S420 Series, Level 4, Phase One (Old Wing), HKCEC</td>
</tr>
<tr>
<td>1) MTR Corporation Limited</td>
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<tr>
<td>2) Microsoft</td>
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<tr>
<td>3) ESRI China (Hong Kong) Limited</td>
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<td>4) Hongkong International Terminals Limited</td>
</tr>
<tr>
<td>5) Suffice Industrial Technology Limited</td>
</tr>
<tr>
<td>Opening Session (08:45 - 10:00), S421, Level 4, Phase One (Old Wing), HKCEC</td>
</tr>
</tbody>
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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**
<table>
<thead>
<tr>
<th>Keynote Session 1 (10:00 - 10:30), S421, Level 4, Phase One (Old Wing), HKCEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Towards Smart Cities of the Future I: Setting the Scene</td>
</tr>
</tbody>
</table>
| 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*
Satellite-based Environmental Monitoring System of Smart Cities

C.K. SHUM\textsuperscript{a}, Lei ZHANG\textsuperscript{b}, Tarig ALI\textsuperscript{c}, Becky P.Y. LOO\textsuperscript{d}, Rosana W.M. WONG\textsuperscript{e}

\textsuperscript{a}The Ohio State University, U.S.A.
\textsuperscript{b}The Hong Kong Polytechnic University
\textsuperscript{c}American University of Sharjah, U.A.E.
\textsuperscript{d}The University of Hong Kong
\textsuperscript{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\textsuperscript{a}, Michael LAW\textsuperscript{b}, Joe HSIE\textsuperscript{b}
\textsuperscript{a}AECOM Asia Company Limited
\textsuperscript{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**, Zuopeng XIAO, James J. WANG  
*aCity University of Hong Kong*  
*bHarbin 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**, Marie VERSCHUER, Peter NEWMAN  
*aEDAB Consulting Pty Limited*  
*bBodhi Alliance Pty Limited*  
*cCurtin 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
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>Approach</td>
<td>City University of Hong Kong</td>
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<td>Building Individual Travel Chains Using Traffic Surveillance Data</td>
<td>Yun YUE, Zi YANG, Xin PEI, Danya YAO</td>
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<td>Tsinghua University, Beijing</td>
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<td>Riding on Mobile and Big Data Applications: New Railway Customer</td>
<td>Annie LEUNG</td>
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<td>Experience</td>
<td>MTR Corporation Limited</td>
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<tr>
<td>Parallel Session 8 (15:30 - 17:00), S424, Level 4, Phase One (Old</td>
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<td>Wing), HKCEC</td>
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<td>Resilience</td>
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<tr>
<td>Session Chair: <strong>Professor P.C. LAI</strong></td>
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<tr>
<td>Professor, Department of Geography, The University of Hong Kong</td>
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<td>Characterising Traffic Collision Hotspots with Weibo Data: A Case</td>
<td>Jinzi WANG, Shenjun YAO, Jianping WU</td>
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<tr>
<td>Study of Haining, China</td>
<td>East China Normal University, Shanghai</td>
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<td>Installation of Traffic Detectors on Strategic Routes in Hong Kong</td>
<td>Shirley LEUNG, Gary LEUNG</td>
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<td>Transport Department, The Government of the Hong Kong Special Administrative Region</td>
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<td>Criticality of Cyber Security to Smart Railway Operations</td>
<td>H.W. CHAN, Joyce CHAN</td>
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<td>MTR Corporation Limited</td>
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</tbody>
</table>
### 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, Weng Keong KU, Kun Peng KOU, Soi Hoi LAM, Ka Io WONG  
\(^a\) *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*
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart E-shopping and Travel Behaviour Modelling in Selected Areas of Lagos, Nigeria</td>
<td>O.O. AGUNLOYE, Suliat Ifedolapo ADEGOKE</td>
<td>University of Lagos, Nigeria</td>
</tr>
<tr>
<td>E-commerce and the Demand for Shopping Trips</td>
<td>Pengyu ZHU</td>
<td>The University of Hong Kong</td>
</tr>
<tr>
<td>Break (17:00 - 18:00)</td>
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<tr>
<td>Gala Dinner (18:00 - 21:00), Concord Room, 8/F, Renaissance Harbour View Hotel</td>
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<tr>
<td><strong>Reception</strong>: 18:00</td>
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<tr>
<td><strong>Dinner starts</strong>: 18:30</td>
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<td></td>
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</tbody>
</table>