

# ITEA

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18

Hong Kong



Annual Conference and School on Transportation Economics

25 - 29 Jun 2018



# ITEA

## 2018 Hong Kong



# Schedule

	Monday 6/25/2018	Tuesday 6/26/2018	Wednesday 6/27/2018	Thursday 6/28/2018	Friday 6/29/2018	
08:30 - 09:00	School Registration starts			Session 13-18	ITEA Executive Committee	
09:00 - 09:30	School Lecture 1					School Lecture 5
09:30 - 10:00				Session 19-23	Session 47-51	
10:00 - 10:30						
10:30 - 11:00	Coffee break					
11:00 - 11:30	School Lecture 2	School Lecture 6	School Lecture 9	Session 24-28	Session 52-55	
11:30 - 12:00				Session 29-33	Session 56-59	
12:00 - 12:30						
12:30 - 13:00	Lunch		Conference Registration starts	Session 29-33	Session 56-59	
13:00 - 13:30			Lunch			
13:30 - 14:00	School Lecture 3	School Lecture 7				
14:00 - 14:30						
14:30 - 15:00			Session 1-5		Session 34-39	ITEA General Assembly
15:00 - 15:30	Coffee break		Session 6-11	Session 40-44	Session 61-65	
15:30 - 16:00	School Lecture 4	Tutorial II				Coffee break
16:00 - 16:30					Keynote Lecture & Paper Awards	International Transport Forum
16:30 - 17:00						
17:00 - 17:30	Coffee break		Keynote Lecture & Paper Awards	International Transport Forum		
17:30 - 18:00	Tutorial I				Session 70-71	
18:00 - 18:30						
18:30 - 19:00		School Dinner	Welcome Reception	Gala Dinner	Farewell Party	
19:00	School Dinner					

# ITEA 2018 Hong Kong

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We are pleased to host the 2018 Annual School and Conference of the International Transportation Economics Association (ITEA) in Hong Kong, from 25 to 29 June 2018, at The Hong Kong Polytechnic University. We believe that Hong Kong is an ideal place to discuss and think about transportation because transportation is such an important part of the city. For instance, a 42 km bridge-and-tunnel system is currently under construction that will connect Hong Kong with Macau and the city of Zhuhai. Hong Kong's metro system doesn't require subsidies but rather generates profits. Hong Kong airport is the world number one airport in terms of international air cargo. And, Hong Kong is close to Mainland China, which is expected to overtake the US and become the largest domestic air passenger market in the world in less than 10 years. The high-speed rail system in China is already bigger than all high-speed rail systems outside China together and will be doubled in the future. Finally, the Chinese government has launched the so-called Belt-and-Road initiative with a fund of 40 billion USD to develop the Silk Road Economic Belt and 21<sup>st</sup> Century Maritime Silk Road. The objective of this initiative is to promote economic co-operation among countries along the proposed Belt and Road routes covering Asia, Africa and Europe. All these examples illustrate the role of transport for Hong Kong and the region as a whole.

The two and a half-day School is held on June 25-27, just before the Conference. Its aim is to provide young researchers, graduate students and policy analysts a high quality introduction to academic research on transport economics, including many recent advances in the field. The School's program consists of a series of lectures and tutorials; all faculty are among the most prominent researchers in the field.

The aim of the Conference is to promote scientific excellence in the field of transport economics and to provide a forum for scientific exchange. Research presented at the Conference covers both theory and empirical work, and it includes all transport modes. Specific topics of interest include, but are not limited to transport pricing and investment, competition policy, transport decisions under uncertainty, agglomeration effects, valuation of intangibles, privatization, the economics of new transport technologies, sharing economics, the political economy of transport decisions, the Belt-and-Road initiative of the Chinese government, etc.

## Organizing Committee

### Chair

Achim I. Czerny

### Co-chair

Sarah Wan

### Secretariat

Violette Wong

### Assistance

Hao Lang

## Scientific Committee

### Chair

Bruno de Borger

### Member

Henrik Andersson

Richard Arnott

Achim I. Czerny

André de Palma

Ricardo Flores-Fillol

Mogens Fosgerau

Hideki Fukui

Marc Ivaldi

Yukihiro Kidokoro

Moez Kilani

Ming Hsin Lin

Ismir Mulalic

Se-il Mun

Silvio Nocera

Stef Proost

Ian Savage

Anming Zhang

## School Committee

### Chair

Jos van Ommeren

### Member

Leonardo J. Basso

Maria Börjesson

Robin Lindsey

Sergio Jara-Diaz

Erik Verhoef



# The organisers

## The Hong Kong Polytechnic University

**The Hong Kong Polytechnic University (PolyU)** is strategically located in Hung Hom, Kowloon, on a 9.34-hectare site adjacent to the Cross Harbour Tunnel. It is the largest tertiary institution in Hong Kong in terms of number of students, with approximately 32,000 full-time and part-time students. A wide range of courses which directly meets industrial, commercial and community needs are offered. In addition to meeting Hong Kong's manpower requirements, PolyU also makes significant contributions towards the territory's success by providing the public and private sectors with its expanding range of consultancy, professional training, and applied research services. Through these activities, the University maintains a strong partnership with the business and industrial sectors. Over the years, more than 310,000 young men and women have graduated from PolyU and its predecessors. The graduates have found their places in various sectors of the society, dedicating their knowledge and expertise to the building and development of Hong Kong's thriving economy.



## Department of Logistics and Maritime Studies

The **Department of Logistics and Maritime Studies (LMS)** of Faculty of Business strives to provide quality and comprehensive education in logistics and maritime studies at both undergraduate and postgraduate levels for Hong Kong, Chinese Mainland and Asia. The primary aims are to nurture highly effective managers and leaders through the development of contemporary educational materials and the use of innovative and teaching methods. In line with PolyU's tradition, LMS places strong emphasis on academic and applied research in various areas covering maritime, shipping, ports, supply chain management and transport logistics. It also provides professional training and consultancy services to the industries in such areas as maritime law, logistics IT, containerization, port benchmarking, operations research, simulation, shipping economics, and shipping finance. With close collaboration with the industries and dedication to real world application, LMS can bring the highest quality and the most up-to-date research findings and consultancy experience into classes, which will benefit the industry and the community as a whole. It is what LMS makes a difference in logistics and maritime education.



## International Transportation Economics Association

The purpose of the **International Transportation Economics Association (ITEA)** is to promote the development and application of transport economics by:

- Stimulating scientific excellence and policy-relevant research;
- Promoting advanced education in the field; and
- Promoting interaction between research and transport related policymaking.



To fulfil its purpose, ITEA:

- Organizes annually the *Kuhmo Nectar Conference and Summer School of ITEA*.
- Organizes other conferences, seminars, or meetings as forums for scientific exchange and professional development.
- Organizes *Economics of Transportation: Journal of ITEA*, jointly with Elsevier Publisher.
- Undertakes special issues of other journals, books, etc.
- Awards research and teaching prizes.
- Issues a newsletter, email alerts, and other communications for the diffusion of information to the profession.
- Maintains a web site.
- Builds and maintains connections with other organizations with related goals.

# School programme

Monday, 25 June		
		<b>Room: R1108</b>
09:00 – 10:30	<b>Equilibria and Optima</b> Robin Lindsey (University of British Columbia)	
11:00 – 12:30	<b>Urban Public Transportation</b> Leonardo J. Basso (Universidad de Chile)	
13:30 – 15:00	<b>Urban Freight Transport Economics (and Its Role to Foster Economic Productivity and Sustainability)</b> José Holguín-Veras (Rensselaer Polytechnic Institute)	
15:30 – 17:00	<b>The Political Economy of Transport Decision Making</b> Bruno de Borger (University of Antwerp)	
17:30 – 19:00	<b>Tutorial I: Empirical Transport Economics</b> Jos van Ommeren (VU University Amsterdam) Stefanie Peer (Vienna University of Economics and Business) Francis Ostermeijer (VU University Amsterdam)	

Tuesday, 26 June		
		<b>Room: R1108</b>
09:00 – 10:30	<b>Transport and Land Use</b> André de Palma (École Normale Supérieure Paris-Saclay)	
11:00 – 12:30	<b>Travel Time Variability</b> Mogens Fosgerau (University of Copenhagen)	
13:30 – 15:00	<b>Transportation Cost-Benefit Analysis: Valuations and Decision Making</b> Maria Börjesson (KTH Royal Institute of Technology)	
15:30 – 17:00	<b>Tutorial II: Empirical Transport Economics</b> Jos van Ommeren (VU University Amsterdam) Stefanie Peer (Vienna University of Economics and Business) Francis Ostermeijer (VU University Amsterdam)	

Wednesday, 27 June		
		<b>Room: R1108</b>
09:00 – 10:30	<b>Second-Best Road Pricing</b> Erik Verhoef (VU University Amsterdam)	
11:00 – 12:30	<b>Economics of Airline Networks</b> Jan Brueckner (University of California, Irvine)	



## Sessions details

### Session 1: Air Traffic Control

June 27: 14:00 – 15:00

Chair: Nicole Adler

Room: R1108

<b>182</b>	<b>From static sectorization to dynamic airspace structures - Operational and economic benefits of flight centered air traffic management</b>
Thomas Standfuss*	DLR German Aerospace Center
Frank Fichert	University of Applied Science Worms
Michael Schultz	DLR German Aerospace Center
<b>53</b>	<b>Introducing competition in European air traffic control provision using auction mechanisms</b>
Nicole Adler*	Hebrew University of Jerusalem
Eran Hanany	Tel Aviv University
Stef Proost	KU Leuven

### Session 2: Climate Change

June 27: 14:00 – 15:00

Chair: Alain Quinet

Room: R1206

<b>146</b>	<b>A discrete-continuous model of car portfolio choice</b>
Anders Munk-Nielsen*	University of Copenhagen
<b>43</b>	<b>Climate change and cost-benefit analysis of rail investments: estimating the impact of renewal from a life cycle perspective</b>
Alain Quinet*	SNCF Réseau

### Session 3: High Speed Rail: Demand and Impact on Airport

June 27: 14:00 – 15:00

Chair: Shuli Liu

Room: R1106

<b>158</b>	<b>Assessing the demand for rail transport: an empirical analysis for high-speed services in France</b>
Anthony Martin*	Arafer
Olivier Chalmeau	Arafer
Aude Le Lannier	Arafer
<b>66</b>	<b>The impact of High-Speed Rail (HSR) development on airport: A comparative study of China and Japan</b>
Shuli Liu*	The Hong Kong Polytechnic University
Yulai Wan	The Hong Kong Polytechnic University
Anming Zhang	University of British Columbia
Yuichiro Yoshida	Hiroshima University
Hun-Koo Ha	Inha University

## Session details

### Session 4: Pricing: Intermodal and Road Tolls

June 27: 14:00 – 15:00

Chair: Bruno De Borger

Room: R1109

<b>171</b>	<b>On the optimal pricing and subvention policies in multimodal trip chains</b> Jani-Pekka Jokinen* Aalto University
<b>39</b>	<b>Road tolls, toll avoidance and traffic calming</b> Bruno De Borger* Stef Proost University of Antwerp Center for Economic Studies, KULeuven

### Session 5: Public Transport: Subsidies

June 27: 14:00 – 15:00

Chair: Chau Man Fung

Room: R1205

<b>77</b>	<b>Distribution effects of public transport subsidies</b> Maria Börjesson* Jonas Eliasson Royal Institute of Technology Stockholm City Transportation Administration
<b>74</b>	<b>Do small cities need more public transport subsidies than big cities?</b> Maria Börjesson Chau Man Fung* Stef Proost Zifei Yan Royal Institute of Technology KU Leuven KU Leuven KTH

### Session 6: Airlines: Entry and LCCs

June 27: 15:00 – 16:00

Chair: Sungsik Park

Room: R1109

<b>5</b>	<b>Jet fuel hedging, operational efficiency improvement and carbon tax</b> Changmin Jiang* University of Manitoba
<b>59</b>	<b>The effect of Low-Cost Carriers' (LCC) service recovery on passenger's loyalty through continual service orientation: A case of LCC in South Korea</b> Sungsoo Choi Sungsik Park* Incheon International Airport Corp Korea National University of Transportation



## Session details

### Session 7: Autonomous Vehicles: Welfare Analysis

June 27: 15:00 – 16:00

Chair: Anna Straubinger

Room: R1206

<b>199</b>	<b>Autonomous vehicles, residential parking prices and car use</b>
	Francis Ostermeijer* VU University Amsterdam
	Hans Koster VU University Amsterdam
	Jos Van Ommeren VU University Amsterdam
<b>128</b>	<b>Options for a welfare analysis of urban air mobility</b>
	Anna Straubinger* Bauhaus Luftfahrt e.V.
	Erik Verhoef VU University Amsterdam
	Kay Ploetner Bauhaus Luftfahrt e.V.

### Session 8: High Speed Rail: Network Configuration and Territorial Conditions

June 27: 15:00 – 16:00

Chair: Cécile Cheze

Room: R1108

<b>191</b>	<b>Impact of network configuration on high-speed rail adoption and development</b>
	Valentina Bracaglia Autostrade per l'Italia S.p.A.
	Tiziana D'Alfonso Sapienza Università di Roma
	Alberto Nastasi Sapienza Università di Roma
	Dian Sheng Huazhong University of Science and Technology
	Yulai Wan* The Hong Kong Polytechnic University
	Anming Zhang University of British Columbia
<b>177</b>	<b>Understanding the territorial conditions for wider economic impacts of high-speed rail to occur: A proposition</b>
	Cécile Cheze* SNCF Réseau, LAET

### Session 9: Maritime: Loyalty

June 27: 15:00 – 16:00

Chair: Hsu-Li Tsai

Room: R1106

<b>111</b>	<b>Port aesthetics and tourist loyalty in Hong Kong</b>
	Chin-Shan Lu* The Hong Kong Polytechnic University
<b>98</b>	<b>Container port marketing and customer loyalty: Evidence from Taiwan</b>
	Hsu-Li Tsai* Taipei University of Marine Technology

## Session details

### Session 10: Public Transport: Optimal Pricing

June 27: 15:00 – 16:00

Chair: Sergio Jara-Diaz

Room: R1205

<b>91</b>	<b>Socially optimal fares and frequencies for urban bus services in small cities</b>	
	Disa Asplund	VTI
	Roger Pyddoke*	VTI
<b>24</b>	<b>The role of space in design, scale economies and optimal pricing in public transport</b>	
	Andres Fielbaum	Universidad de Chile
	Antonio Gschwender	Universidad de Chile
	Sergio Jara-Diaz*	Universidad de Chile

### Session 11: Keynote Lecture & Best Paper Awards

June 27: 16:30 – 18:30

Chair: Bruno de Borger

Room: V322

	<b>Promoting Globalization and Diversity in the 21st Century: From the Viewpoint of Spatial Economics</b>	
	Masahisa Fujita*	Chief Research Officer, Research Institute of Economy Trade and Industry Professor, Konan University Adjunct Professor, Institute of Economic Research, Kyoto University Member of the Japan Academy (2010-)
	<b>ITEA 2018 Hong Kong: Best Paper by a Junior Researcher Prize</b>	
	<b>ITEA 2018 Hong Kong: Best Overall Paper Prize</b>	



## Session details

### Session 12: Airlines: Alliances

June 28: 08:30 – 09:30

Chair: Ricardo Flores-Fillol

Room: R1108

<b>173</b>	<b>Airline antitrust immunity game</b>	
	Chau Man Fung*	KU Leuven
	Na Li	KU Leuven
<b>169</b>	<b>Vertical differentiation and airline alliances</b>	
	Xavier Fageda	University of Barcelona
	Ricardo Flores-Fillol*	Universitat Rovira i Virgili
	Ming Hsin Lin	Osaka University of Economics

### Session 13: Bottleneck: Mixed Traffic and Revenue-Neutrality

June 28: 08:30 – 09:30

Chair: Yili Tang

Room: R1206

<b>18</b>	<b>A bottleneck model including public transport and mixed traffic</b>	
	Leonardo J. Basso	Universidad de Chile
	Fernando Feres*	Universidad de Chile
	Hugo E. Silva	Pontificia Universidad Católica de Chile
<b>67</b>	<b>The hybrid fare scheme in the transit bottleneck model with heterogeneous scheduling flexibility</b>	
	Yili Tang*	Hong Kong University of Science and Technology
	Hai Yang	Hong Kong University of Science and Technology

### Session 14: Intermodal: Cargo

June 28: 08:30 – 09:30

Chair: Jinglei Yang

Room: R1106

<b>197</b>	<b>Optimal subsidies to multimodal rail containers using Bi-level Programming</b>	
	Jinglei Yang*	Nankai University

## Session details

### Session 15: Policies: Parking Management and Capacity Investment

June 28: 08:30 – 09:30

Chair: Yu Morimoto

Room: R1109

<b>156</b>	<b>Using app-based data to evaluate rebound effects following the introduction of parking management</b>
	Stephan Lehner* Stefanie Peer
	Vienna University of Economics and Business Vienna University of Economics and Business
<b>26</b>	<b>Hub port competition in capacity investment with scale economy</b>
	Yu Morimoto*
	Konan University

### Session 16: Traffic Management: Tolling and App-based Feedback

June 28: 08:30 – 09:30

Chair: Stefanie Peer

Room: R1205

<b>64</b>	<b>A new social welfare-based equity toll model</b>
	Chih-Peng Chu* Shou-Ren Hu Chung-Yung Wang
	National Dong Hwa University National Cheng Kung University National Defense University
<b>45</b>	<b>Learning from app-based feedback on driving skills: Do monetary incentives matter?</b>
	Stefanie Peer* Katharina Sallinger Alexander Muermann Andreas Aschenbrenner
	Vienna University of Economics and Business Dolph.in Vienna University of Economics and Business KfV

### Session 17: Airlines: Empirics

June 28: 09:30 – 10:30

Chair: Alexander Luttmann

Room: R1108

<b>140</b>	<b>International airline codesharing as a signaling phenomenon</b>
	Gerben de Jong* C Behrens Erik Verhoef
	VU University Amsterdam VU University Amsterdam VU University Amsterdam
<b>4</b>	<b>Are passengers compensated for incurring an airport layover? Estimating the value of layover time in the U.S. airline industry</b>
	Alexander Luttmann*
	University of California, Irvine



## Session details

### Session 18: Intermodal: Air and Rail

June 28: 09:30 – 10:30

Chair: Wenyi Xia

Room: R1106

<b>27</b>	<b>An empirical study of airline's reaction to high-speed railway entries and high-speed railway's reaction to airlines expansion in Guangdong-Hong Kong-Macao Greater Bay Area</b>
Kin-Lok Keung*	The Hong Kong Polytechnic University
Yuk Ting Hester Chow	Hong Kong Community College
<b>22</b>	<b>Effects of train speed on airline demand and price: Theory and empirical evidence from a natural experiment</b>
Kun Wang	University of British Columbia
Wenyi Xia*	University of British Columbia
Anming Zhang	University of British Columbia
Qiong Zhang	Anhui Normal University

### Session 19: Maritime: Dedicated Terminals and Connectivity

June 28: 09:30 – 10:30

Chair: Shuang Wang

Room: R1109

<b>57</b>	<b>Investment timing decisions on dedicated terminals under market ambiguity</b>
Shiyuan Zheng*	Shanghai Maritime University
Xiaowen Fu	ITLS
<b>44</b>	<b>Connectivity reliability evaluation of key nodes in the maritime transportation network of crude oil based on vine copulas</b>
Jing Lu	Dalian Maritime University
Shuang Wang*	Dalian Maritime University

### Session 20: Rail: Disruptions and Costs

June 28: 09:30 – 10:30

Chair: Anupriya Anupriya

Room: R1205

<b>93</b>	<b>Rail disruptions and ridership – Does salience matter?</b>
Jeremy Lim	National University of Singapore
Timothy Wong*	National University of Singapore
<b>80</b>	<b>Cost function for urban rail transport systems</b>
Anupriya Anupriya*	Imperial College London

## Session details

### Session 21: Urban Economics: Urban Realm and Urban Growth

June 28: 09:30 – 10:30

Chair: Yoon Sang Moon

Room: R1206

**176 What is the value of urban realm? – A cross-sectional analysis in London**

Tom Millard*	Phil Jones Associates
John Nellthorp	University of Leeds
Manuel Ojeda Cabral	University of Leeds

**103 Market potential approach to urban growth: A case in South Korea**

Yoon Sang Moon*	Korea Development Institute
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### Session 22: Airlines: Networks

June 28: 11:00 – 12:00

Chair: Tatiana Seregina

Room: R1108

**174 The competition among airlines and its effect on the aviation network**

Yusuke Teraji*	Tezukayama University
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**70 Expansion of international airline networks: An application to US carriers**

Chantal Roucolle	Ecole Nationale de l'Aviation Civile
Tatiana Seregina*	ENAC & Toulouse School of Economics
Miguel Urdanoz	Toulouse Business School

### Session 23: Autonomous Vehicles: Public Transport

June 28: 11:00 – 12:00

Chair: Ioulia Ossokina

Room: R1205

**161 Increasing flexibility of public transport with autonomous vehicles. Are users likely to end up better-off?**

Francisco Bahamonde-Birke*	DLR / TU-Berlin
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**116 Spatial effects of automated driving: Dispersion, concentration or both**

Ioulia Ossokina*	Eindhoven University of Technology
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## Session details

### Session 24: Infrastructure Management: Vehicle Electrification and Regional Interdependence

June 28: 11:00 – 12:00

Chair: T. Donna Chen

Room: R1106

<b>147</b>	<b>Regional interdependence of transport infrastructure against natural disasters</b> Ryo Itoh* Tohoku University
<b>123</b>	<b>Evaluating the fuel tax revenue impacts of vehicle electrification and fuel efficiency improvement</b> T. Donna Chen* Wenjian Jia Rajesh Paleti University of Virginia University of Virginia Old Dominion University

### Session 25: Maritime: Disruptions

June 28: 11:00 – 12:00

Chair: Magnus Landergren

Room: R1109

<b>180</b>	<b>Port congestion and economies of scale: The large containership factor</b> Changqian Guan Shmuel Yahalom* Jun Yu US. Merchant Marine Academy State University of New York Maritime College Shanghai Maritime University
<b>152</b>	<b>The cost of maritime accidents</b> Magnus Landergren* VTI

### Session 26: Traffic Management: Tolling and Trading

June 28: 11:00 – 12:00

Chair: Daisuke Fukuda

Room: R1206

<b>113</b>	<b>Trading trips: Using tradable permits to manage urban mobility</b> Erik Verhoef* Devi Brands Jasper Knockaert Paul Koster VU University Amsterdam VU University Amsterdam VU University Amsterdam VU University Amsterdam
<b>189</b>	<b>Tolling and traffic demand: Evidence from the 2016 toll scheme reform on urban expressway network in the Tokyo Metropolitan Area</b> Daisuke Fukuda* Hiroya Shiroma Tokyo Institute of Technology Tokyo Institute of Technology



## Session details

### Session 27: Infrastructure Management: Vertical Separation and Administered Incentive Pricing

June 28: 12:00 – 13:00

Chair: Tiziana D'Alfonso

Room: R1108

<b>154</b>	<b>Does vertical separation affect the performance of infrastructure management in railways? Evidence from European countries</b>
	Jean-Christophe Thiebaud*      University of Leeds
<b>148</b>	<b>Optimal administered incentive pricing</b>
	Alessandro Avenali      Sapienza University of Rome Tiziana D'Alfonso*      Sapienza University of Rome Pierfrancesco Reverberi      Sapienza University of Rome

### Session 28: Maritime: Trade

June 28: 12:00 – 13:00

Chair: Masashige Hamano

Room: R1106

<b>196</b>	<b>A computable equilibrium model of international iron ore trade</b>
	Dong Yang      The Hong Kong Polytechnic University Lingge Zhang      The Hong Kong Polytechnic University Meifeng Luo*      The Hong Kong Polytechnic University
<b>121</b>	<b>Adapting to within-country export barriers: Evidence from the Japan 2011 tsunami</b>
	Masashige Hamano*      Waseda University

### Session 29: Public Transport: Optimal Fleet and Differential Pricing

June 28: 12:00 – 13:00

Chair: Dan Graham

Room: R1205

<b>29</b>	<b>Optimal fleet size, frequencies and vehicle capacities considering peak and off-peak periods in public transport</b>
	Sergio Jara-Diaz      Universidad de Chile Andres Fielbaum*      Universidad de Chile Antonio Gschwender      Universidad de Chile
<b>23</b>	<b>Quantifying the causal effects of differential pricing on mass transit ridership via temporal regression discontinuity analysis of large scale smart-card data</b>
	Dan Graham*      Imperial College London

## Session details

### Session 30: Road Congestion: Self-financing and Pricing

June 28: 12:00 – 13:00

Chair: Kexin Geng

Room: R1109

<b>166</b>	<b>Self-financing roads under coarse tolling</b>
	Vincent A.C. van den Berg* VU University Amsterdam Ling-Ling XIAO Beijing Jiaotong University
<b>97</b>	<b>Effects of congestion charge on relocation decisions under non-capital functions relieving strategy in Beijing, China</b>
	Kexin Geng* Beijing Jiaotong University Yacan Wang Beijing Jiaotong University

### Session 31: Traffic Management: Dynamics and Mechanism Design

June 28: 12:00 – 13:00

Chair: Roman Zakharenko

Room: R1206

<b>135</b>	<b>Rush-hour traffic dynamics in an isotropic downtown area: The social optimum</b>
	Richard Arnott UCR Moez Kilani* University of Littoral at Dunkerque
<b>6</b>	<b>Algorithms and mechanism design for traffic management</b>
	Roman Zakharenko* National Research University Higher School of Economics

### Session 32: Airports: Pricing and Capacity

June 28: 14:00 – 15:00

Chair: Ming Hsin Lin

Room: R1206

<b>126</b>	<b>Congestion pricing with business and leisure passengers: Who wins, who loses?</b>
	Achim I. Czerny The Hong Kong Polytechnic University Hanxiang Zhang* The Hong Kong Polytechnic University Xiaowen Fu ITLS
<b>34</b>	<b>International congested airports: Pricing and capacity</b>
	Ming Hsin Lin* Osaka University of Economics

## Session details

### Session 33: Discrete Choice: Best, Worst, Best-worst and Large Scale Allocation

June 28: 14:00 – 15:00

Chair: Paolo Delle Site

Room: R1108

<b>181</b>	<b>Optimal large-scale allocation of individualized incentives in transportation</b>
	Araldo Andea MIT André de Palma* École Normale Supérieure Paris-Saclay
<b>172</b>	<b>Estimation of Logit and Probit models using best, worst and best-worst choices</b>
	Paolo Delle Site* Niccolò Cusano University Karim Kilani CNAM, LIRSA Valerio Gatta University of Roma Tre Edoardo Marcucci Molde University College André de Palma Ecole Normale Supérieure de Cachan

### Session 34: Privatization: Incentive Contracts

June 28: 14:00 – 15:00

Chair: Marco Batarce

Room: R1109

<b>164</b>	<b>Passenger incentives contracts and the effect on ridership</b>
	Andreas Vigren* VTI
<b>107</b>	<b>Designing incentive contracts for quality provision in public transport procurement: The case of Santiago, Chile</b>
	Marco Batarce* Universidad Diego Portales, Chile

### Session 35: Safety

June 28: 14:00 – 15:00

Chair: Richard Hanowski

Room: R1205

<b>106</b>	<b>An analysis of the safety externalities of cross-border "Mega Trucks" traffic in the European market</b>
	José I. Castillo-Manzano University of Seville Mercedes Castro-Nuño University of Seville Xavier Fageda* University of Barcelona
<b>32</b>	<b>Evaluating promising safety technologies in commercial vehicle operations: Assessing efficacy, benefits, and costs</b>
	Richard Hanowski* Virginia Tech Transportation Institute

## Session details

### Session 36: Supply Chain

June 28: 14:00 – 15:00

Chair: Philippe Gagnepain

Room: R1106

<b>90</b>	<b>A study of Halal airline meals in Hong Kong under One Belt One Road Policy</b> Yuk Ting Hester Chow Kin-Lok Keung*	Hong Kong Community College The Hong Kong Polytechnic University
<b>28</b>	<b>Knowledge spillovers in cost-reduction incentives</b> Philippe Gagnepain* Luis Aguiar	Université Paris 1 Panthéon-Sorbonne European Commission

### Session 37: Air Transport: Ancillary Supplies and Productivity

June 28: 15:00 – 16:00

Chair: Jose Carbo

Room: R1206

<b>187</b>	<b>The impact of consumer myopia in monopoly and duopoly platforms: The case of airports</b> Giuseppe D'Amico*	Universitat Rovira i Virgili
<b>35</b>	<b>Causal relationship between air transport and productivity: Evidence from China</b> Jose Carbo* Dan Graham	Imperial College London Imperial College London

### Session 38: Airports: Congestion Management

June 28: 15:00 – 16:00

Chair: Hideki Fukui

Room: R1106

<b>188</b>	<b>Per-flight and per-passenger congestion pricing when airline quality differs</b> Xi Wan*	Nanjing Audit University
<b>14</b>	<b>How do slot restrictions affect airfares? New evidence from the US airline industry</b> Hideki Fukui*	Ehime University



## Session details

### Session 39: Intermodal: Commute

June 28: 15:00 – 16:00

Chair: Takao Dantsuji

Room: R1108

<b>185</b>	<b>Decision-making under risk: From individual preferences to couple decisions</b>
	<div>Nathalie Picard* Université de Cergy-Pontoise</div> <div>André de Palma École Normale Supérieure Paris-Saclay</div> <div>Julien Monardo CREST</div> <div>Anthony Ziegelmeyer Queen's University</div>
<b>125</b>	<b>Departure time and transport mode choices in cities with road bottlenecks and crowding in transit</b>
	<div>Takao Dantsuji* Tokyo Institute of Technology</div> <div>Daisuke Fukuda Tokyo Institute of Technology</div>

### Session 40: Schedule Reliability

June 28: 15:00 – 16:00

Chair: Nicolas Coulombel

Room: R1205

<b>204</b>	<b>On the benefit of hidden or revealed information on waiting time in a transportation system</b>
	<div>Achim I. Czerny The Hong Kong Polytechnic University</div> <div>Pengfei Guo* The Hong Kong Polytechnic University</div> <div>Refael Hassin Tel Aviv University</div>
<b>145</b>	<b>Optimal timetable for unreliable transit services</b>
	<div>Nicolas Coulombel* Université Paris Est - LVMT</div> <div>André de Palma Ecole Normale Supérieure de Cachan</div>

### Session 41: Urban Economics: Sustainability and Commuting

June 28: 15:00 – 16:00

Chair: Toshitaka Gokan

Room: R1109

<b>6</b>	<b>Inter-regional migration, commuting, and transportation tariffs</b>
	Andrei Dementiev* Higher School of Economics
<b>160</b>	<b>On the sustainability of a monocentric city: Lower transport costs from new transport facilities</b>
	Toshitaka Gokan* Institute of Developing Economies-JETRO

## Session details

### Session 42: International Transport Forum (Sponsored by OECD)

June 28: 16:30 – 18:30

Chair: Philippe Crist

Room: V322

	<b>Shared (Smart) Mobility, MaaS and public transport – A new future!</b> David Hensher* Professor of Management Founding Director, Institute of Transport and Logistics Studies The University of Sydney, Australia
	<b>MaaS (Mobility as Service): Promises, progress and prospects</b> Soora Rasouli* Department of Built Environment Eindhoven University of Technology, The Netherlands
	<b>Sharing transportation development and policy challenges in China</b> Hongchang Li* School of Economics and Management Beijing Jiaotong University, China

## Session details

### Session 43: ITEA Executive Committee

June 29: 08:30 – 09:30

Room: R903

### Session 44: Air Transport: Demand and Security

June 29: 09:30 – 10:30

Chair: Abhishek Ranjan

Room: R1108

**193 Macroeconomic determinants of air-traffic demand: The case of Spain**

Juan Gonzalez-Alegre\*

Universidad de Málaga

**190 Simulation for optimum aviation passenger security-check systems**

Abhishek Ranjan\*

Technical University of Denmark

### Session 45: Cost Benefit Analysis

June 29: 09:30 – 10:30

Chair: Jonas Eliasson

Room: R1106

**163 Hypothetical biases in the value of waiting time**

Bára Karlínová\*

Masaryk University

Ondřej Krčál

Masaryk University

Stefanie Peer

Vienna University of Economics & Business

Rostislav Stanek

Masaryk University

**33 The impact of land use effects in infrastructure CBA – A simulation study**

Jonas Eliasson\*

Stockholms Stad, Traffic Administration

Christian Savemark

KTH Royal Institute of Technology

Joel Franklin

KTH Royal Institute of Technology

## Session details

### Session 46: Electric Vehicles

June 29: 09:30 – 10:30

Chair: Anming Zhang

Room: R1205

<b>48</b>	<b>Electric vehicles and urban transport externalities – Is Oslo a good example?</b> Stef Proost* KU Leuven
<b>25</b>	<b>Adoption of electric vehicles: Manufacturers' incentive and government policy</b> Jing Shao Hangjun Yang Anming Zhang* UIBE University of International Business and Economics University of British Columbia

### Session 47: Privatization: Competition

June 29: 09:30 – 10:30

Chair: Marc Ivaldi

Room: R1109

<b>133</b>	<b>Spatial competition for transport infrastructure contracts: Participation and bidding effects of transportation distance in Swedish tenders of road repaving</b> Ivan Ridderstedt* Jan-Eric Nilsson Daniel Wikström VTI VTI VTI
<b>19</b>	<b>Competition for versus in the market of long-distance passenger rail services</b> Frederic Cherbonnier Marc Ivaldi* Catherine Muller-Vibes Karine Van Der Straeten Toulouse School of Economics Toulouse School of Economics Toulouse School of Economics Toulouse School of Economics

### Session 48: Wider Economic Benefits: Trade and Economic Geography

June 29: 09:30 – 10:30

Chair: Jan Wessel

Room: R1206

<b>142</b>	<b>Roads and the geography of economic activities in Mexico</b> Brian Blankespoor Theophile Bougna Rafael Garduno Harris Selod* The World Bank The World Bank Centro de Investigacion y Docencia Econo The World Bank
<b>36</b>	<b>Evaluating the transport-mode-specific trade effects of different transport infrastructure types</b> Jan Wessel* University of Münster

## Session details

### Session 49: Airports: Slots

June 29: 11:00 – 12:00

Chair: Hugo E. Silva

Room: R1106

<b>69</b>	<b>A Pricing versus slots game: The case of substitute air services</b>
Achim I. Czerny	The Hong Kong Polytechnic University
Hao Lang*	The Hong Kong Polytechnic University
<b>13</b>	<b>Slot auctions and trade at congested airports</b>
Leonardo J. Basso	Universidad de Chile
Hugo E. Silva*	Pontificia Universidad Católica de Chile

### Session 50: Governance: Airports and Railways

June 29: 11:00 – 12:00

Chair: Jean-Christophe Thiebaud

Room: R1206

<b>88</b>	<b>Changing governance of airports – A comparison of Austria, Denmark, Italy, Hungary, Portugal and Spain</b>
Hans-Martin Niemeier*	University of Applied Sciences Bremen
<b>151</b>	<b>Causality and endogeneity: Casting a threat on the assessment of governance structures in railways</b>
Andrew Smith	University of Leeds
Jean-Christophe Thiebaud*	University of Leeds

### Session 51: Parking: Park&Ride and Tradable Permits

June 29: 11:00 – 12:00

Chair: Devi Brands

Room: R1109

<b>8</b>	<b>Analysis on the impact factors of park-and-ride behaviors in Beijing</b>
Peihong Chen*	Beijing Jiaotong University
<b>130</b>	<b>To trade or not to trade? Tradable parking permits and rationality: Evidence from an experiment</b>
Devi Brands*	VU University Amsterdam
Jasper Knockaert	VU University Amsterdam
Paul Koster	VU University Amsterdam
Erik Verhoef	VU University Amsterdam



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### Session 52: Rail: Frequency and Barrier-free Design

June 29: 11:00 –12:00

Chair: Katsumi Tanabe

Room: R1108

<b>30</b>	<b>How demand reacts to changes in train service frequency: A theoretical approach including round trips</b>	
	Leny Grassot	LAET
	Florent Laroche*	LAET
	Guillaume Monchambert	University of Lyon
<b>52</b>	<b>Barrier-free design impacts on railway passenger demand in an aging city</b>	
	Katsumi Tanabe*	Keio University
	Tatsuya Ikarashi	Japan Transport Research Institute
	Ryosuke Abe	Japan Transport Research Institute

### Session 53: Shared Mobility: Carsharing and Bikesharing

June 29: 11:00 – 12:00

Chair: Antonio Russo

Room: R1205

<b>7</b>	<b>Study on influencing factors of public transport choices – Under the impact of sharing bikes</b>	
	Shi Chen*	Beijing Jiaotong University
	Huiyu Zhou	Beijing Jiaotong University
<b>150</b>	<b>Should carsharing be subsidized?</b>	
	Bruno De Borger	University of Antwerp
	Antonio Russo*	ETH Zurich
	Erik Verhoef	VU University Amsterdam

### Session 54: Intermodal: Air and Rail

June 29: 12:00 – 13:00

Chair: Fangni Zhang

Room: R1108

<b>132</b>	<b>High speed trains and airlines in a transport network: Price competition and infrastructure charges pricing</b>	
	Óscar Álvarez San-jaime	Universitat de València
	Pedro Cantos-Sanchez*	Universitat de València
	Rafael Moner-Colonques	Universitat de València
	Jose Sempere-Monerris	Universitat de València
<b>120</b>	<b>The substitution and complementary effects between high-speed rail and air transport</b>	
	Fangni Zhang*	University of Leeds
	Dan Graham	Imperial College London

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### Session 55: Parking: Marginal External Cost and Regulation

June 29: 12:00 – 13:00

Chair: Jos van Ommeren

Room: R1109

<b>72</b>	<b>The impact of curbside parking regulation on car ownership</b>
	Daniel Albalate University of Barcelona Albert Gragera* University of Barcelona
<b>16</b>	<b>The marginal external cost of street parking, optimal pricing and supply: Evidence from Melbourne</b>
	Michael McIvor Ernst & Young Jos van Ommeren* VU University Amsterdam

### Session 56: Rail: Marginal Cost and Open-access Competition

June 29: 12:00 – 13:00

Chair: Kristofer Odolinski

Room: R1205

<b>144</b>	<b>Welfare effects of open-access competition on railway markets</b>
	Emanuel Broman* KTH Royal Institute of Technology
<b>108</b>	<b>The marginal cost of track reinvestments in the railway network: A comparison between a survival model and corner solution model</b>
	Sherzod Yarmukhamedov VTI Jan-Eric Nilsson VTI Kristofer Odolinski* VTI

### Session 57: Travel Time Reliability

June 29: 12:00 – 13:00

Chair: Mogens Fosgerau

Room: R1106

<b>63</b>	<b>Route choice, rational inattention and travel time variability</b>
	Gege Jiang* Hong Kong University of Science and Technology Mogens Fosgerau University of Copenhagen
<b>2</b>	<b>Travel time variability and rational inattention</b>
	Mogens Fosgerau* University of Copenhagen Gege Jiang Hong Kong University of Science and Technology

## Session details

### Session 58: Wider Economic Benefits: Transportation Improvement

June 29: 12:00 – 13:00

Chair: Ismir Mulalic

Room: R1206

<b>194</b>	<b>A new way of evaluating the benefits of a transportation improvement</b>	
	Abu Ahmed	National Board of Revenue
	Yuichiro Yoshida*	Hiroshima University
	Richard Arnott	UCR
<b>155</b>	<b>Productivity effects of an exogenous improvement in transport infrastructure: The bridge</b>	
	Bruno De Borger	University of Antwerp
	Ismir Mulalic*	Kraks Fond
	Jan Rouwendal	VU University Amsterdam

### Session 59: ITEA General Assembly

June 29: 14:00 – 15:00

Room: M1603

### Session 60: Public Transport: Economies of Scale and Mergers

June 29: 15:00 – 16:00

Chair: Patrice Bougette

Room: R1109

<b>95</b>	<b>Economies of scale in alternative asphalt paving methods: Evidence from the Swedish Traffic Administration</b>	
	Oskar Johansson*	VTI
	Jan-Eric Nilsson	VTI
	Johan Nyström	VTI
<b>49</b>	<b>A retrospective on mergers in the long-distance bus industry in France: Price effects and efficiency gains</b>	
	Thierry Blayac	University of Montpellier
	Patrice Bougette*	Université Côte d'Azur, CNRS, GREDEG, France

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### Session 61: Shared Mobility: Mobility Behaviors and Parking

June 29: 15:00 – 16:00

Chair: Thierry Blayac

Room: R1205

<b>117</b>	<b>Modeling and managing the parking sharing problem</b>	
	Wei Liu*	University of New South Wales
	Fangni Zhang	University of Leeds
	Xiaolei Wang	Shanghai Jiao Tong University
	Chaoyi Shao	Hong Kong University of Science and Technology
	Hai Yang	Hong Kong University of Science and Technology
<b>47</b>	<b>Mobility behaviors, role of travel information, and determinants of its use – Some lessons learned from a survey in a French Metropolis</b>	
	Thierry Blayac*	University of Montpellier

### Session 62: Traffic Management: Surface Parking and Decentralisation

June 29: 15:00 – 16:00

Chair: Daniel Hörcher

Room: R1108

<b>115</b>	<b>General equilibrium effects of CBD surface parking lots</b>	
	Sofia Franco*	Nova School of Business and Economics
	Andrew Waxman	Arizona State University
<b>139</b>	<b>Decentralisation and its efficiency implications in suburban public transport</b>	
	Daniel Hörcher*	Imperial College London
	Woubit Seifu	University of Antwerp
	Bruno De Borger	University of Antwerp
	Dan Graham	Imperial College London

### Session 63: Urban Structure: Public Transport and Transit System

June 29: 15:00 – 16:00

Chair: Leonardo J. Basso

Room: R1206

<b>83</b>	<b>Design of mass transit system and urban spatial structure</b>	
	Se-il Mun*	Kyoto University
	Asato Taguchi	Fukushima Prefectural Library
<b>12</b>	<b>Public transport and urban structure</b>	
	Leonardo J. Basso*	Universidad de Chile
	Matias Navarro	CEDEUS
	Hugo E. Silva	Pontificia Universidad Católica de Chile

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### Session 64: Wider Economic Benefits: Land Value Capture and Residential Properties

June 29: 15:00 – 16:00

Chair: Sylvia He

Room: R1106

<b>118</b>	<b>Land value capture and urban development in mass transit projects: The urbanistic management case of first metro line of Bogotá</b>
	César Ruiz* Universidad Nacional de Colombia
<b>42</b>	<b>The regional impact of rail network accessibility on residential property price in Hong Kong from 2001-2011</b>
	Sylvia He* The Chinese University of Hong Kong Hanako Negishi The University of Hong Kong

### Session 65: Air Transport: Connectivity

June 29: 16:30 – 17:30

Chair: Valeria Bernardo

Room: R1206

<b>141</b>	<b>An analysis of international air traffic flows and emerging global hub cities in Asia</b>
	Hideobu Matsumoto* Kobe University Koji Domaie Kansai Gaidai University
<b>94</b>	<b>Globalization, long-haul flights and inter-city connections</b>
	Valeria Bernardo* University of Barcelona Xavier Fageda University of Barcelona

### Session 66: Discrete Choice: Extreme and Extremeness

June 29: 16:30 – 17:30

Chair: Karim Kilani

Room: R1205

<b>205</b>	<b>Heterogeneity in decision processes: Embedding extremeness aversion, risk attitude and perceptual conditioning in multiple process rules choice making</b>
	David Hensher* The University of Sydney Camila Balbontin The University of Sydney Andrew Collins The University of Sydney
<b>183</b>	<b>On generalized extreme value choice probabilities systems satisfying the IIA property</b>
	André de Palma Ecole Normale Supérieure de Cachan Karim Kilani* CNAM, LIRSA



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### Session 67: Environment: Air Pollution and Noise

June 29: 16:30 – 17:30

Chair: Samuel Lindgren

Room: R1108

<b>165</b>	<b>The impact of air pollution and noise on property prices</b> Henrik Andersson* Toulouse School of Economics, University of Toulouse Capitole
<b>96</b>	<b>Does noise pollution matter? Evidence from the housing market and an airport contract renewal</b> Samuel Lindgren* VTI

### Session 68: Shared Mobility: Carpool and Autonomous Vehicles

June 29: 16:30 – 17:30

Chair: Guillaume Monchambert

Room: R1109

<b>127</b>	<b>Can autonomous vehicles increase ridesharing under activity uncertainty?</b> Xiaolei Guo* University of Windsor
<b>40</b>	<b>Why do (or don't) people carpool for long distance trips? Should we value togetherness?</b> Guillaume Monchambert* University of Lyon

### Session 69: Airlines: Model Testing and Experiment

June 29: 17:30 – 18:30

Chair: Christian Bontemps

Room: R1108

<b>87</b>	<b>Acceptability of luggage charge for civil aviation airlines in China: An experimental analysis based on perceived value</b> Hongchang Li* LingQiu Wang Beijing Jiaotong University Beijing Jiaotong University
<b>114</b>	<b>Testing frontier models</b> Christian Bontemps* Gianmaria Martini ENAC and Toulouse School of Economics University of Bergamo

## Session details

### Session 70: General Equilibrium

June 29: 17:30 – 18:30

Chair: Huibin Chang

Room: R1106

<b>202</b>	<b>Regulation versus taxation: Efficiency of zoning and tax instruments as anti-congestion policies</b>
Georg Hirte	Technische Universität Dresden
Hyok-Joo Rhee*	Seoultech
<b>85</b>	<b>Pricing urban transport in the Greater Paris Metropolitan Area: A general equilibrium analysis</b>
Alex Anas	SUNY-Buffalo
Huibin Chang*	UIBE

### Session 71: Wider Economic Benefits: Economic Growth

June 29: 17:30 – 18:30

Chair: Kathrin Goldmann

Room: R1109

<b>79</b>	<b>Growth or relocation? The impact of an intracity transport project on the spatial distribution of economic activity</b>
Dan Graham	Imperial College London
Csaba Gabor Pogonyi*	Imperial College London
<b>78</b>	<b>The role of transport infrastructure investment in economic growth in Pakistan</b>
Kathrin Goldmann*	Münster University
Irem Batool	COMSATS Institute of Information Technology

*\*Presenting author*

# Attendance list

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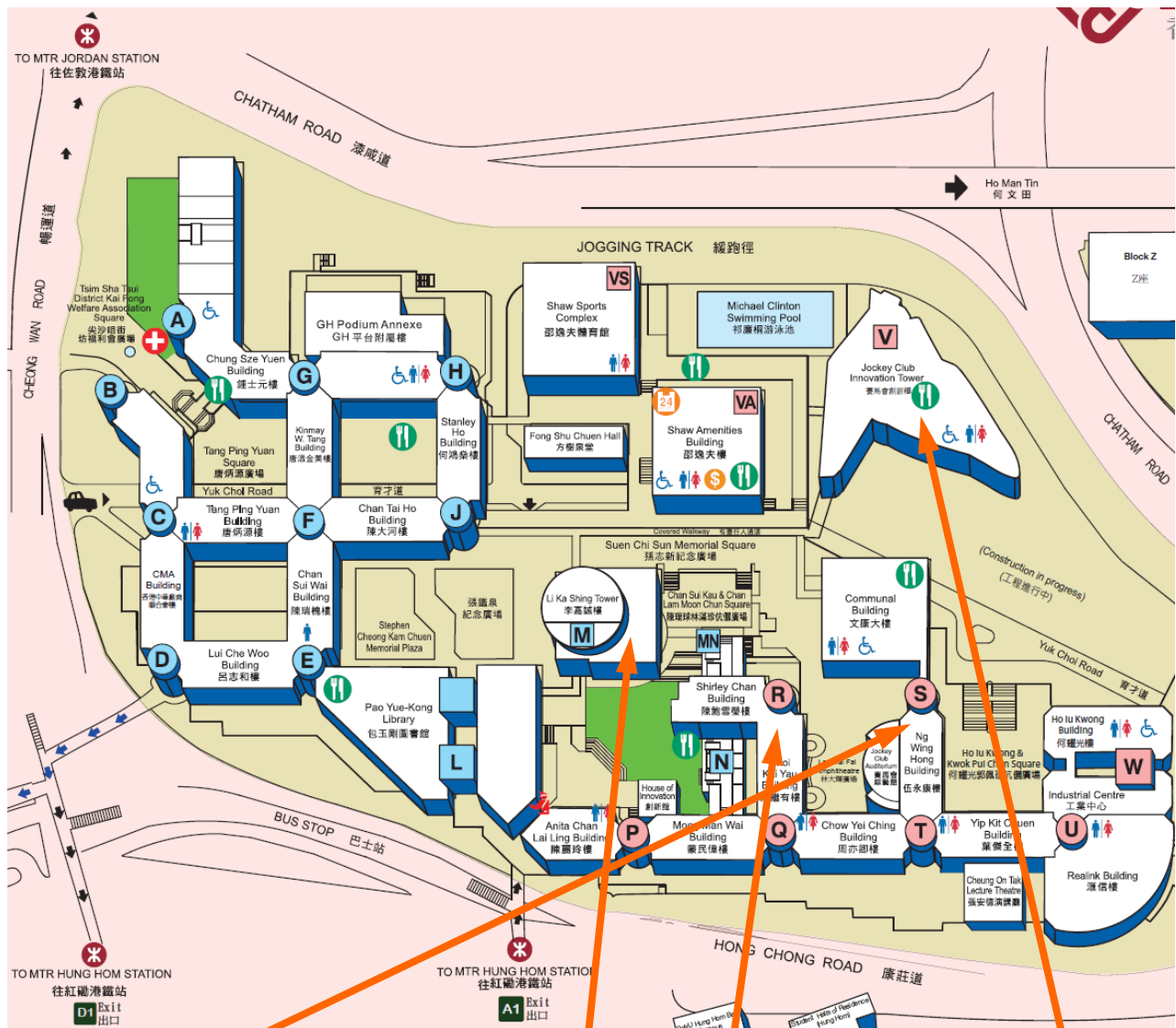
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# Campus Map



**Ng Wing Hong Building, G/F, Core S**

- Shuttle drop-off

**M1603**

- ITEA General Assembly

**R903, R1106, R1108, R1109, R1205 & R1206**

- Registration (R11/F)
- School Sessions
- Parallel Sessions
- ITEA Executive Committee

**V322**

- Keynote Lecture
- Best Paper Awards
- International Transport Forum

# ITEA

## 2018 Hong Kong





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## 2018 Hong Kong

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香港理工大學



Innovation-driven Education and Scholarship

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Business  
工商管理學院

Department of  
**LOGISTICS  
& MARITIME  
STUDIES**  
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**Belt and Road Centre**  
The Hong Kong Polytechnic University  
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