













The 9th International Forum on Shipping, Ports and Airports (IFSPA) 2017

## Welcome to IFSPA 2017

#### **Welcome Message from Conference Chair**



On behalf of the Organising Committee, I welcome you to the 9<sup>th</sup> International Forum on Shipping, Ports and Airports, **IFSPA 2017**, organized by the C.Y. Tung International Centre for Maritime Studies and the Department of Logistics and Maritime Studies of The Hong Kong Polytechnic University.

IFSPA 2017 is one of the highlights of the PolyU 80<sup>th</sup> Anniversary in 2017. Themed **"Innovative Transport Logistics in Shaping the Future of Supply Chains"**, the IFSPA 2017 conference aims to provide an interactive platform for international academics to discuss important issues related to shipping, ports, and airports. It also advocates adoption of new concepts, knowledge and technologies. As in the past, this year's IFSPA also covers other important and practical issues of industrial relevance.

Selected outstanding papers presented at IFSPA 2017 will be included in the special issues of International Journal of Shipping and Transport Logistics, Transport Policy, and Maritime Business Review.

I would also like to thank the time and effort of the conference secretariat, as well as the invaluable contribution from the invited speakers, authors, paper reviewers, special issue editors, Emerald Group Publishing and supporting organizations.

Last but not least, we would like to thank you all for attending and supporting IFSPA 2017 and helping to make it another success. We hope you have a fulfilling and enjoyable time in Hong Kong.

#### **Tsz Leung Yip**

Conference Chair, IFSPA 2017
Deputy Director, C.Y. Tung International Centre for Maritime Studies
Associate Professor, Department of Logistics and Maritime Studies
Faculty of Business
The Hong Kong Polytechnic University

## **About IFSPA 2017**

The International Forum on Shipping, Ports and Airports (IFSPA) is an annual international conference jointly organised by the C.Y. Tung International Centre for Maritime Studies and the Department of Logistics and Maritime Studies of The Hong Kong Polytechnic University. It aims to invite international academics and practitioners to discuss and exchange views on issues related to global maritime and aviation economics, policy and management. The conference also serves as a good platform for networking and promoting academic-industry collaboration.

The roots of IFSPA can be dated back to 2006 when it was started as a workshop with the objective to promote high-quality research papers. Since then it has experienced significant successes and has attracted more than 700 participants from different countries and regions of the world.

#### **IFSPA 2017**

The conference advocates international academics, industry leaders and global stakeholders to ponder upon issues concerning how to implement a sustainable balance of economic, environmental and social objectives in shipping and transport logistics. IFSPA 2017 also provides an industry-wide initiative to debate and discuss new challenges faced by the industry at present or which it is likely to face in the future.

#### **Organizing Committee**

#### **International Steering Committee**

ChairMartin Dresner (University of Maryland, USA)Tsz Leung YipAnne Graham (University of Westminster, UK)David Gillen (University of British Columbia, Canada)

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Chin-Shan Lu George Q. Huang (The University of Hong Kong, Hong Kong)

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Kap Hwan Kim (Pusan National University, South Korea)

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Hong Yan

Becky P.Y. Loo (The University of Hong Kong, Hong Kong)

Petrus Choy

Theo E. Notteboom (Dalian Maritime University, China)

Kee-hung Lai

Amedeo R. Odoni (Massachusetts Institute of Technology, USA)

Meifeng Luo

Tae Hoon Oum (University of British Columbia, Canada)

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Thanos Pallis (University of the Aegean, Greece)

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Johnny Wan Hai Yang (The Hong Kong University of Science and Technology, Hong Kong)

Sik Kwan Tai TL Yip (The Hong Kong Polytechnic University, Hong Kong)
Anming Zhang (University of British Columbia, Canada)

Secretariat

Violette Wong Tsz-him Chan

## About the Organizers

#### 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.



#### **C.Y. Tung International Centre for Maritime Studies**

With the passion for creating a world-class heartland of maritime studies, education and consultancy in the Asian region, LMS established the International Centre for Maritime Studies in 2005. Developed under PolyU's Area of Strategic Development Scheme, the Centre is the first of its kind in Hong Kong. The founding of the Centre also underlines the determination of PolyU and LMS to play an essential role in supporting the Chinese Mainland's strategic direction of developing logistics as a major of national economy. At the same time, the Centre strives to support Hong Kong to reinforce its role as a world-renowned international maritime centre. In March 2009, in conjunction with its Opening Ceremony after a major renovation, the Centre was named after the late Mr C.Y. Tung as the C.Y. Tung International Centre for Maritime Studies, in appreciation of a pledge of HK\$10 million from The Tung Foundation. With the generous donation, the Centre has embarked on further expansion to provide maritime resources and support for the Department's students, academics, and industrial partners, and the maritime community as a whole.





# Conference Schedule

Day 1: 22 May	2017 (Mon)									
15:00 – 16:30	5:00 – 16:30 Registration & Welcome Reception						R 11/F			
Day 2: 23 May 2017 (Tue)										
09:30 – 10:00	Registration	Registration							M1607	
10:00 – 10:30				Open	ing Cer	emony				M1603
10:30 – 11:00	Coffee Break									
11:00 – 11:45				Keyr	ote Ses	sion 1				M1603
11:45 – 14:00	Conference Lu	nch								
14:15 – 15:00				Keyr	note Ses	ssion 2				M1603
15:15 – 16:00				Keyr	note Ses	ssion 3				M1603
16:00 – 16:30	Coffee Break									
16:30 – 17:15				Keyr	note Ses	ssion 4				M1603
17:30 – 18:15				Keyr	note Ses	ssion 5				M1603
18:30 – 20:30	Conference Ba	nqu	iet							
Day 3: 24 May	2017 (Wed)									
08:30 - 10:00	Session 1 (R1106)		Sessio (R110			ssion 3 R1205)		Session 4 (R1206)	1	pecial Session R1108)
10:00 – 10:15	Coffee Break									R Core 11/F
10:15 – 12:15	Session 5 (R903)	_	ession 6 (R1108)	Sessi (R11	-	Session 8 (R1205)	_	Session 9 (R1206)	1	ecial Session R1106)
12:15 – 13:30	Conference Lu	nch								
13:30 – 15:30	Session 10 (R903)		ession 11 (R1106)	Session (R11		Session 1 (R1109)	- 1	Session 14 (R1206)		rial Session R1205)
15:30 – 16:00	Coffee Break									R Core 11/F
16:00 – 18:00	Session 15 (R903)		ession 16 (R1106)	Session (R11	on 17 108)	Session 1 (R1109)	- 1	Session 19 (R1206)		rial Session R1205)
18:00 – 18:15	Closing Ceremony & Best Paper Award Presentation R1108					R1108				
18:30 – 20:30	Gala Dinner									
Day 4: 25 May	2017 (Thur)									
12:30 – 19:00	12:30 – 19:00 Conference Tour (for confirmed registrants only)  (Gathering site: PolyU Main Entrance, G/F, Core AB)									
- End of Conference -										

#### Highlights:

Emerald Exhibition at R11/F on 24<sup>th</sup> May

Day 2: 11:00 - 11:45

Chair: Achim I. Czerny Room: M1603

#### Commercial Airline Sector Overview and the Role of Hong Kong as a Hub for Operating Leasing

#### **Mr Peter Huijbers**

CEO

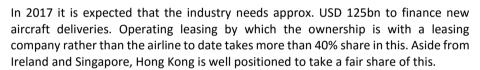
China International Aviation Leasing Service Co., Ltd.

CALS Financial Leasing (Shanghai), Co., Ltd.

China

#### Abstract:

The Commercial Airline industry is and has been a very resilient industry that shows a continued growth globally and in Asia in particular. Aside from the growing Middle Class that like to travel by air, also the growth of Low Cost Carriers has been a strong pillar for aviation growth.





Day 2: 14:15 - 15:00

Chair: Achim I. Czerny Room: M1603

#### Efficiency and Substitutability of Transit Subsidies, Dedicated Bus Lanes and Congestion Pricing

#### Dr Leonardo J. Basso

Department of Civil Engineering Universidad de Chile, Chile

#### Abstract:

We analyze the efficiency of and the substitutability between three urban congestion management policies: transit subsidization, car congestion pricing, and dedicated bus lanes.

The model features user heterogeneity, cross-congestion effects between cars and transit, intertemporal and total transport demand elasticities, and is simulated using data for London, UK and Santiago, Chile. We find that the substitutability between policies is large and, in particular, the marginal contribution of increased transit subsidies, as other policies are implemented first, diminishes rapidly. Bus lanes are an attractive way to increase frequencies and decrease fares without injecting public funds.



Day 2: 15:15 - 16:00

Chair: Achim I. Czerny Room: M1603

#### Road Congestion Pricing: Prospects and Challenges

#### **Professor Robin Lindsey**

CN Chair in Transportation and International Logistics Sauder School of Business, University of British Columbia Canada

#### Abstract:

Traffic congestion is pervasive in cities around the world and imposes major costs on residents, businesses and public health. For nearly a century economists have supported the idea of pricing the usage of roads as a way to alleviate traffic congestion. Toll roads are common, but few pricing schemes have been established to target congestion. Many schemes have been proposed, but failed to gain approval.

This talk will begin by explaining why expanding road capacity is often not an effective solution to traffic congestion, and can even be outright harmful. It will then review the basic theory of optimal congestion pricing and contrast the theory with current practice. Some of the many challenges of designing and implementing tolls will then be assessed. The talk will conclude by discussing how public opposition to tolling can be overcome.



Day 2: 16:30 -17:15

Chair: Zhou Xu Room: M1603

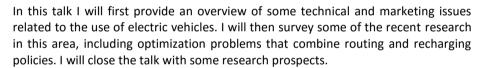
#### Goods Distribution with Electric Vehicles: Recent Results and Research Prospects

#### **Professor Gilbert Laporte**

CIRRELT and Canada Research Chair in Distribution Management HEC Montreal Canada

#### Abstract:

Over the past decade, electric vehicles for goods distribution have gained in popularity in several countries. They are gradually becoming a preferred mode of transportation for last-mile deliveries in inner cities. The incorporation of electric vehicles in logistics and supply chain management has opened up several interesting research issues.





Day 2: 17:30 - 18:15

Chair: Achim I. Czerny Room: M1603

#### Airport Scheduling Limits that Account for Local and System-Wide Effects

#### **Professor Amedeo Odoni**

T. Wilson Chair Professor Emeritus of Aeronautics and Astronautics & of Civil and Environmental Engineering Massachusetts Institute of Technology USA

#### Abstract:

Air traffic delays at the busiest airports can be reduced significantly by modifying the proposed schedules of flights submitted by the airlines at these airports. However, selecting the set of changes that will interfere the least with airline schedules is an extremely difficult task – especially at hub airports, where any local schedule changes are likely to "propagate" throughout the network of flights of the affected airlines.

In this paper we present an approach for addressing this problem. It combines two newly developed models: the Demand Smoothing (DS) optimization model that generates a new flight schedule in response to the introduction of scheduling limits at an airport; and a special-purpose network queuing model, the Approximate Network Delays (AND) model, that estimates both the local and the system-wide effects of alternative scheduling limits. We illustrate the approach and its results through a detailed example involving Newark Airport, near New York City. [Joint work with Dr. Nikolas Pyrgiotis.]



## **Industrial Session**

Day 3: 13:30 - 17:00

Chair: Raymond T C Wong Room: R1205



The Institute of Seatransport will conduct an Industrial Session, focusing on the professional expertise on marine insurance practice, and the role of Hong Kong as an international maritime centre under OBOR.

Mr. Raymond T C Wong, Chairman of the Institute, and Principal of Asia Maritime Adjusting (Hong Kong), will take lead with support of Mr. C H Wong and guest moderators (maritime claims practitioners) to present a 2-hour interactive workshop on PRACTICAL ASPECTS OF MARINE INSURANCE – From Casualty to Collection of Claims, examining:

- a) General and Particular Average on Ship (arising from loss of steering control whilst the vessel was proceeding with cargo in containers);
- b) Constructive Total Loss of Vessel (arising from a collision at sea resulting in the vessel voluntarily beaching with cargo on board).

Various issues arising from the casualties where the vessel is insured on Hull & Machinery and Increased Value subject to Institute Time Clauses will also be discussed, including:

- General Average Identifying GA; decision to declare GA; port of Refuge Expenses; substituted Expenses; insurance on Average Disbursements; provision of security and demand of security; place of Adjustment; applying claim to policies of insurances; Cargo's refusal to contribute.
- ii. Particular Average Cause of damage and onus of proof; due diligence proviso; when did the damage occur – which Policy pays; how many accidents and deductibles are involved; what can be claimed – method of repairs and reasonable cost of repairs.
- iii. Constructive Total Loss Options open to the Assured; Notice of Abandonment; onus of proof on the Assured; what goes in to calculating CTL on figures; Sue & Labour Charges in addition to CTL.

Mr. C H Wong, Member of the Institute, and Director of Five Oceans Maritime Ltd. will then present on THE ROLE OF Hong Kong AS AN INTERNATIONAL MARITIME CENTRE UNDER OBOR which will examine Hong Kong's position as an International Ship Finance Centre (ISFC) and International Logistics Hub (ILH).





## **IMCC Special Session**



Spec	ial Session on Quar	ntitative Analysis in Shipping and Aviation	n e e e e e e e e e e e e e e e e e e e
		Da	ay 3: 08:30 – 10:00
Chair	: Meifeng Luo		Room: R1108
A21	Stated preference study o	n the heterogeneous behavior in airfare choice	
	Jue Wang*	The Hong Kong Polytechnic University	
	Meifeng Luo	The Hong Kong Polytechnic University	
M51	Modelling port call decision	ons of liner shipping services in a contestable market	
	Xiaofan Wu*	The Hong Kong Polytechnic University	
	Meifeng Luo	The Hong Kong Polytechnic University	
M52	Lifespan of world mercha	nt fleet: An empirical analysis	
	Sung-ho Shin*	The Hong Kong Polytechnic University	
	Meifeng Luo	The Hong Kong Polytechnic University	
M54	Effects of sellers and buye	ers on ship prices	
	Wen Hao Peng*	The Hong Kong Polytechnic University	
	Roar Adland	Norwegian School of Economics	
	Tsz Leung Yip	The Hong Kong Polytechnic University	

#### **About this Session**

Organized by the IMC-Frank Tsao Maritime Library and R&D Centre (IMCC) of The Hong Kong Polytechnic University (PolyU), this session starts with the topic "Quantitative Analysis in Shipping and Aviation" which is composed of three related studies. First, we discuss the modelling port call decisions of liner shipping services in a contestable market. Second, we examine the lifespan of world merchant fleet. Third, we analyze the stated preference on the heterogeneous behavior in airfare choice.

The number of ports to call is the essential information for liner service design, which also affects the decision on port development and capacity expansion. This study models the relationship between ship size and port call numbers in a contestable route with single or two players. In the single player model, the player determines the optimal number of port calls for a given contestable price. When there are two players, a duopoly model is development to model the optimal price discount and optimal number of port calls.

The service life of a ship is a fundamental information for ship-related decision. This study analyzes the lifespan of world merchant ships based on 16,551 ship deletion records since 1990 using Cox PH model. Important factors that affects ships life are identified in the study.

This study designed a comprehensive experiment to distinguish the different airfare selection behavior, and tested the validity and stability of the design using simulated data, and applied it in an actual survey on passenger behavior in air-fare selection. The result in such study can improve airlines' revenue management strategy through better pricing.

The last paper analyses the second-hand ship transaction price from the microeconomic perspective. Specifically, seller and buyer effects and their contribution to transaction price formation will be investigated. The results give insights into the microeconomic determinants of individual second-hand ship prices. We show that the heterogeneity and matching effect of sellers and buyers also contribute to explaining individual ship prices in the second-hand ship market. The research contributes to the understanding of second-hand ship prices and further provide some guidance to assist market participants in making decisions.



		Day 3	: 10:15 – 12:1!
Chair	: Zhou Xu		Room: R1106
L10	A branch-and-price-and-c	ut algorithm for a pickup and delivery problem in retailing	
	Zhixing Luo*	Nanjing University	
	Lijun Gong	City University of Hong Kong	
	Chongshou Li	National University of Singapore	
	Andrew Lim	National University of Singapore	
L12	Optimizing dispatch plan constraints	during mass-casualty incidents with transportation and n	nedical resource
	Lijun Wei*	Jiangxi University of Finance and Economics	
	Yanzhi Li	City University of Hong Kong	
L20	Assignment graph and rou	iting table solution representation for the split-delivery vehicle	e routing probler
	Wenbin Zhu*	South China University of Technology	
	Zhixing Luo	Nanjing University	
	Hu Qin	Huazhong University of Science and Technology	
	Andrew Lim	National University of Singapore	
M26	A column-row-generation	approach to liner shipping network design	
	Jun Xia	The Hong Kong Polytechnic University	
	Zhou Xu*	The Hong Kong Polytechnic University	

#### **About this Session**

Organized by the Logistics Research Center (LRC) of The Hong Kong Polytechnic University (PolyU), this session includes four talks, which present new optimization methods for various logistics applications.

The first talk is about a real-world product distribution problem faced by a fast fashion retailer in Singapore. In this talk, a novel branch-and-price-and-cut algorithm will be presented based on a strong set-partitioning model, where an ad-hoc label-setting algorithm is designed to solve the pricing problem. Extensive computational results demonstrate the effectiveness and efficiency of the new algorithm.

In the second talk, a logistics problem in the aftermath of a Mass-Casualty Incident (MCI) will be discussed, for which a new response model will be proposed by considering the transportation resource and medical resource. Different from previous model, this new model assumes that the capacity of each hospital as the number of operating rooms and take into account the treatment time for each patient. A mixed integer programming formulation is proposed and solved for the integrated optimization problem that taken into account patient to hospital assignment, ambulance dispatching, and treatment ordering.

In the third talk, a study on split delivery vehicle routing problem will be presented, where the demand of a customer needs to be served by a homogeneous fleet of vehicles with the minimum total traveling cost minimized. To tackle this difficult problem, a novel local search algorithm is proposed based on an effective approach to reduce the search space. The new algorithm has significantly outperformed the existing methods. Among the 113 benchmark instances tested, the new algorithm has improved the best-known solutions for 43 instances.

The session concludes with a study on a liner shipping network design problem that aims at creating a set of regular services for a designated fleet of oceangoing ships to transport the containerized cargos among seaports. A novel optimization approach is proposed based on simultaneous column and row generation. Results from experiments have shown the effectiveness and efficiency of our models and solution methods.

Sess	ion 1		
		Day 3	<b>3</b> : 08:30 – 10:00
Chair	: Hans Wang		Room: R1106
M20	Challenges faced by the Indian port	sector in the distribution mechanism of containers	
	Vidya G Mohan*	National Institute of Technology	
M25	Association analysis on inspection	deficiencies of ships in port state control	
	Chun-Min Chang	National Taiwan Ocean University	
	Wu-Hsun Chung*	National Taiwan Ocean University	
	Sheng-Long Kao	National Taiwan Ocean University	
	Chien-Chung Yuan	National Taiwan Ocean University	
M37	Identification and analysis of the ev	olution of port shipping industry in Hong Kong	
	Zhongzhen Yang	Dalian Maritime University	
	Dongxu Chen*	Dalian Maritime University	
	Qinghui Xiu	Dalian Maritime University	

Sess	ion 2		
		Day 3	3: 08:30 <b>– 10:0</b> 0
Chair	: Noorul Shaiful Fitri Abdul Rahm	nan	Room: R1109
M16	Using meta-frontier approach to joining E-Commerce alliances	measure the efficiency of global liner shipping compa	nies: An aspect of
	Shih-Liang Chao	National Taiwan Ocean University	
	Ssu-Yu Cheng*	National Taiwan Ocean University	
M50	Can strategic alliances be an effindustry?	ective way to prohibit anti-competitive practices in	the liner shipping
	Kelvin Pang	The Hong Kong Polytechnic University	
	Wai Lun Hung*	The Hong Kong Polytechnic University	
	Yoon Hye Park	The Hong Kong Polytechnic University	
	Li Ling Joycelyn Poi	The Hong Kong Polytechnic University	
	Hongzi Tao	The Hong Kong Polytechnic University	
M13	An analysis towards the effective penang port berhad	ness of the seaport strategic alliances between langkaw	vi port berhad and
	Gayathiri Marippin*	Universiti Malaysia Terengganu	
	Datin Dr Norhayati Haji Shariff	Universiti Malaysia Terengganu	

Sess	ion 3				
		Day :	3: 08:30 <b>–</b> 10:00		
Chair	: Taih-Cherng Lirn		Room: R1205		
M10	The ISO 31000 and total quality management: An integrated approach in the sustainability stimulus of Malaysian seaport cluster toward competitive vigilance				
	Nur Syahirah Sariffuddin*	Universiti Malaysia Terengganu			
	Mohamad Rosni Othman	Universiti Malaysia Terengganu			
	Jagan Jeevan	Universiti Malaysia Terengganu			
	Noor Azwa Noralam	Universiti Malaysia Terengganu			
M34	Applying multilayer QFD to assess quality of Short Sea Shipping: An empirical study on maritime express service between Taiwan and Mainland China				
	Sheng-Teng Huang	National Taiwan Ocean University			
	I-Hsuan Su*	National Taiwan Ocean University			
M39	Corporate sustainability reporti	ng index for the shipping industry			
	Wei-Tzu Hung	National Taiwan Ocean University			
	Taih-Cherng Lirn*	National Taiwan Ocean University			
	Kuo-Chung Shang	National Taiwan Ocean University			

Sess	ion 4		
		Day :	3: <b>08:30 – 10:00</b>
Chair	r: Po-Hsing Tseng		Room: R1206
M09	The role of certified shipbroker to the	e development of Malaysia	
	Ahmad Amirul Hakim Ahmad Fauzi*	Universiti Malaysia Terengganu	
	Mohd Rizal Ismail	Universiti Malaysia Terengganu	
M23	An effective partnership of professio	nal education in marine and offshore technology	
	Ivan Ck Tam*	Newcastle University	
M21	Constructing English medium instruc	tion indicators in the shipping courses of Taiwan's h	igher education
	Po-Hsing Tseng*	Feng Chia University	
	Kendall Richards	Edinburgh Napier University	
	Nick Pilcher	Edinburgh Napier University	

Sess	ion 5			
		Day 3	: 10:15 – 12:15	
Chair	: Noorul Shaiful Fitri Abdul Rahm	an	Room: R903	
L03	.03 Perspective of east coast distribution center development towards industries in Kuala Tereng			
	Manoraaj Rajendran*	Universiti Malaysia Terengganu		
	Loke Keng Bin	Universiti Malaysia Terengganu		
L05	The empowerment of Malaysia SN countries	IE master plan toward the potential of TPPA SME Polic	cy among selected	
	Sal Azlina Sazali*	Universiti Malaysia Terengganu		
	Madzli Harun	Universiti Malaysia Terengganu		
M14	Cabotage policy: A case study of Sa	abah		
	Nurulfala Nabila Amir Mahmud*	Universiti Malaysia Terengganu		
	Kasypi Mokhtar	Universiti Malaysia Terengganu		
M19	An overview of the hinterland ope	rations at Cochin port		
	Vidya G Mohan*	National Institute of Technology		
	Nasser M.A.	National Institute of Technology		
	Archana V	ACE College of Engineering		
	Amrutha M.A.	ACE College of Engineering		
M18	The implication of Pan Borneo High	hway Sarawak on Bintulu seaport competitiveness		
	Mohd Azhar Kamis*	Universiti Malaysia Terengganu		
	Jagan Jeevan	Universiti Malaysia Terengganu		
	Nurul Haqimin Mohd Salleh	Universiti Malaysia Terengganu		

Sess	ion 6			
		Day :	3: 10:15 -	- 12:15
Chair	: Achim I. Czerny		Room:	R1108
A04	Key factor analysis to be an Airpor	t City (Aerotropolis) in Sri Lankan context		
	Anuja Shamini Fernando* Saman Bandara	University of Moratuwa University of Moratuwa		
A07	Regional air transport in Germany	and Europe: Scope for revitalization after years of dec	line?	
	Sven Maertens*	German Aerospace Center		
A08	Frequency flyer programs: Points p	er distance or per dollar?		
	Leonardo J. Basso*	Universidad de Chile		
	Fernando Feres	Universidad de Chile		
A16	A congestion policy game			
	Achim I. Czerny	The Hong Kong Polytechnic University		
	Hao Lang*	The Hong Kong Polytechnic University		

Sess	ion 7		
		Day	3: 10:15 <b>-</b> 12:15
Chair	: Dong Yang		Room: R1109
M47	Synchromodal freight transport:	An exploratory analysis of the determinants and key e	nablers
	Behzad Behdani*	Wageningen University & Research	
M36	Ship refueling decision optimizat	ion under uncertainty	
	Shuaian Wang	The Hong Kong Polytechnic University	
	Lu Zhen	Shanghai University	
	Dan Zhuge*	The Hong Kong Polytechnic University	
M40	The STCW 2010 Manila Amendm	ents and institutional reform in the Philippines	
	Maximo Q. Mejia Jr.*	World Maritime University	
M42	An optimization model for conta	iner inventory management	
	Mark Ching-Pong Poo*	The Hong Kong Polytechnic University	
	Tsz Leung Yip	The Hong Kong Polytechnic University	

Sess	ion 8		
		Day 3	3: 10:15 <b>–</b> 12:15
Chair	: Chin-Shan Lu		Room: R1205
A15	Investigating the company's prefer	ences toward business charter in the cross-strait mark	ket
	Jin-Ru Yen	National Taiwan Ocean University	
	Tzu-Yin Kuo*	National Taiwan Ocean University	
L06	The enablers in influencing service local Malaysian freight forwarder	quality on satisfaction and repurchase intention: An	empirical study of
	Khuraim Asadi Abdul Razak*	Universiti Malaysia Terengganu	
	Norhayati Shariff	Universiti Malaysia Terengganu	
M05	Examining the influence of service industry	recovery on service quality, satisfaction and loyalty in	the liner shipping
	Shih-Liang Chao	National Taiwan Ocean University	
	Yu-Han Sun*	National Taiwan Ocean University	
	Ru-Yan Lin	National Taiwan Ocean University	
M49	The effects of leader-member exch forwarding companies	ange quality on employee job satisfaction and job perf	ormance in freight
	Hsiang-Kai Weng*	The Hong Kong Polytechnic University	
	Chin-Shan Lu	The Hong Kong Polytechnic University	
	Kee-Hung Lai	The Hong Kong Polytechnic University	
	Y.H. Venus Lun	The Hong Kong Polytechnic University	

Session 9					
		Day	3: 10:15 <b>– 12:1</b> 5		
Chair	: Veerachai Gosasang		Room: R1206		
M08	A study on cargo handling throughp	out at Singapore port using a forecasting method			
	Nurul Ilyani Uberaina*	Universiti Malaysia Terengganu			
	Noorul Shaiful Fitri Abd Rahman	Universiti Malaysia Terengganu			
	Alisha Ismail	Universiti Utara Malaysia			
M12	A study on cargo handling throughp	out at Hong Kong using forecasting technique			
	Tahira Wennick Bittle*	Universiti Malaysia Terengganu			
	Noorul Shaiful Fitri Abd Rahman	Universiti Malaysia Terengganu			
	Alisha Ismail	Universiti Utara Malaysia			
M27		or container throughput forecasting within a decom	position-ensemble		
	methodology				
	Gang Xie*	China Academy of Sciences			
M11	A study on cargo handling throughp	out at Port Klang using forecasting technique			
	Sarapuddin Julkarim*	Universiti Malaysia Terengganu			
	Noorul Shaiful Fitri Abd Rahman	Universiti Malaysia Terengganu			
	Mohammad Khairuddin Othman	Universiti Malaysia Terengganu			
M22	The balancing number of container	throughput both of Bangkok port and Laem Chabang	g port		
	Veerachai Gosasang*	Port Authority of Thailand			
	Nuttapon Boonchokchuay	Port Authority of Thailand			
	Wisetsak Wisetsanyakorn	Port Authority of Thailand			

Sess	sion 10			
		Day 3	: 13:30 – 15:30	
Chair	: Y.H. Venus Lun		Room: R903	
L07	Regional network system in	tegration of sea and land logistics — A case study of shandon	g	
	Jingci Xie*	Shandong University		
	Youdao Pan	Shandong University		
	Huiying Li	Shandong University		
M28	Impacts of China-Europe rai	l services on shipping centers in China and Europe		
	Yiran Zhao*	Dalian Maritime University		
	Zhongzhen Yang	Dalian Maritime University		
	Theo Notteboom	Dalian Maritime University		
M41	The impact of maritime transport and regional integration on trade: With special reference to RCEP			
	Wei-Tzu Chiang	National Taiwan Ocean University		
	Yo-Yi Huang*	National Taiwan Ocean University		
	Kuo-Chung Shang	National Taiwan Ocean University		
	Shu-Man Chang	National Taiwan Ocean University		
A11	Impact of high-speed rail de	velopment on air transport: A network perspective		
	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		

Sess	Session 11				
		Day 3	3: 13:30 <b>–</b> 15:30		
Chair	:: Liang Xu		Room: R1106		
L14	L4 Exploring characteristics of reefer logistics in a multi-actor setting: A systems analysis				
	Yun Fan* Behzad Behdani Jacqueline M. Bloemhof-Ruwaard	Wageningen University & Research Wageningen University & Research Wageningen University & Research			
L19	Tabu search with feasible and infea	sible searches for equitable coloring			
	Wenyu Wang* Jin-Kao Hao Qinghua Wu	Huazhong University of Science and Technology University of Angers & Institut Universitaire de Frai Huazhong University of Science and Technology	nce		
A17	Airport and city-center rivalry				
	Achim I. Czerny Hanxiang Zhang*	The Hong Kong Polytechnic University The Hong Kong Polytechnic University			
L11	Approximation algorithms for capacitant	citated vehicle routing problems with a fixed number	of depots		
	Liang Xu* Zhou Xu	Southwestern University of Finance and Economics The Hong Kong Polytechnic University	3		

Sess	ion 12		
		Day	3: <b>13:30 – 15:30</b>
Chair	: Mike Lai		Room: R1108
M30	The dynamic berth allocation	on problem with ship emissions consideration	
	Jue Hou*	China Waterborne Transport Research Institute	
	Dong Yang	The Hong Kong Polytechnic University	
	Yuquan Du	University of Tasmania	
M33	Do oil buyers make green sh	nipping choices?	
	Haiying Jia*	Norwegian School of Economics	
	Roar Adland	Norwegian School of Economics	
M48	Measures to mitigate and Shipping sector	reverse the negative implications of the low-sulphur limit	on the Short Sea
	Thalis Zis*	Technical University of Denmark	
	Harilaos Psaraftis	Technical University of Denmark	
M31	Evaluate the effect of gree equation modeling	en port policies on the competitiveness of the Kaohsiung	port by structural
	Kai-Lun Ho	National Sun Yat-sen University	
	Ching-Chiao Yang	National Kaohsiung Marine University	
	Meng-Tsung Lee	National Kaohsiung Marine University	
	Yang-Chi Chang*	National Sun Yat-sen University	

Sess	ion 13		
			Day 3: 13:30 – 15:30
Chair	:: Tsz Leung Yip		Room: R1109
A06	Choosing suitable aircraft for b	ousiness charters in the cross-strait market	
	Jin-Ru Yen	National Taiwan Ocean University	
	Chen-Fang Zhong*	National Taiwan Ocean University	
A02	Analysis of the competitivenes	ss of the second international airport in Sri Lanka	
	Sameera Prasani*	University of Moratuwa	
	Anuja Shamini Fernando	University of Moratuwa	
A19	Performance evaluating for Ta	iwan international and cross-strait routes	
	Hsuan Lien*	National Taiwan Ocean University	
	Yu-Chung Chang	National Taiwan Ocean University	
	Ming-Miin Yu	National Taiwan Ocean University	
A03	Impact of flight departure dela	y on airline choice behavior	
	Taylor Tae-Hwee Lee	Pai Chai University	
	Tsz Leung Yip*	The Hong Kong Polytechnic University	

Sess	Session 14				
		Day 3: 13:30 – 15:30			
Chair	: Yulai Wan	Room: R1206			
L15	Integration of production a environment	nd transportation decisions using semi-finished goods in capacitated			
	Ajay Jha	Indian Institute of Technology Kanpur			
	Peeyush Mehta*	Indian institute of Management Calcutta			
	Deepu Philip	Indian Institute of Technology Kanpur			
	Preetam Basu	Indian institute of Management Calcutta			
M35	On the relevance of maritime	transport for medium-distance deliveries of auto parts from suppliers to car			
	manufacturers in Japan: Persp	ectives and challenges			
	Hidekazu Ito*	Kwansei Gakuin University			
	David Guerrero	French Institute of Science and Technology for Transport, Spatial			
		Planning, Development and Networks			
A01	Optimization model to identify	y the benefits of developing an inventory model to reduce the dummy items			
	flown in an aircraft in airline ca				
	Aravinda Dissanayake*	University of Moratuwa			
	Anuja Shamini Fernando	University of Moratuwa			
A13	Single sourcing vs. Multiple so	urcing: Empirical evidence from the US airline industry			
	Yulai Wan*	The Hong Kong Polytechnic University			
	Changmin Jiang	University of British Columbia			
	Kun Wang	University of British Columbia			

Sess	Session 15				
		Day 3	<b>3: 16:00 – 18:00</b>		
Chair	:: Noorul Shaiful Fitri Abdul Rahm	an	Room: R903		
L01	01 Modelling a bus driver's reliability assessment model (BDRAM) for enhancing public transportation in Malaysia				
	Muhammad Helmy Arbain* Nurul Haqimin Mohd Salleh	Universiti Malaysia Terengganu Universiti Malaysia Terengganu			
L04	Employees' perception towards safety policy and the impact towards their compliance be (warehouse operation)				
	Nurul Amylia Haliah* Wan Mariam Wan Abdullah	Universiti Malaysia Terengganu Universiti Malaysia Terengganu			
L02	A study on public perception abou	t issue of bauxite pollution at Kuantan, Pahang			
	Zizi Azroy Jalil* Zahaitun Mahani Zakariah	Universiti Malaysia Terengganu Universiti Malaysia Terengganu			
M07	Visitor perception on marine pollu	tion in tourism area at Pantai Batu Buruk, Kuala Terer	ngganu, Malaysia		
	Elisa Nursaliana Mohd Salleh* Mohd Sharifuddin Ahmad	Universiti Malaysia Terengganu Universiti Malaysia Terengganu			

Sess	Session 16				
		Day	<b>3: 16:00 – 18:00</b>		
Chair	: Grace W.Y. Wang		Room: R1106		
M29	Cruise shipping planning mode	ls and methods			
	Kai Wang*	The Hong Kong Polytechnic University			
	Shuaian Wang	The Hong Kong Polytechnic University			
M32	Applying DEMATEL and ANP to	developed the environmental and sustainability strate	gies for green cruise		
	Chieh-Sheng Chou	National Taiwan Ocean University			
	Feng-Ming Tsai	National Taiwan Ocean University			
	Kuo-Chung Shang*	National Taiwan Ocean University			
M53	A game of slow steaming: A th	eoretical prospect			
	Wei-Ming Wu*	National Kaohsiung First University of Science an	d Technology		
M02	· .	standard daily procedures on stock performance $-$ A $lpha$	ase study of Carnival		
	cruise line				
	Grace W.Y. Wang*	Texas A&M University Galveston			
	Qingcheng Zeng	Dalian Maritime University			
	Lawrence C. Ghoram III	Texas A&M University Galveston			

Sess	ion 17		
		D	ay 3: 16:00 – 18:00
Chair	: Wolfgang Drobetz		Room: R1108
M24	Tanker speeds and oil marke	et conditions	
	Roar Adland*	Norwegian School of Economics	
	Vishnu Prakash	UCL Energy Institute	
	Tristan Smith	UCL Energy Institute	
M38	_	s in Baltic Dry Index: A behavioral approach to understar	nd bubbles, booms and
	busts in shipping market		
	Zhenxi Chen	South China University of Technology	
	Huiling Zhong	South China University of Technology	
	Yimiao Gu*	South China University of Technology	
M45	Efficiency of major cruise line	es: Mergers and acquisitions perspective	
	Young-Tae Chang	Inha University	
	Suhyung Lee*	Inha University	
	Hyosoo Park	Inha University	
M04	Cash holdings in the shipping	g industry	
	Meike Ahrends	Hamburg University	
	Wolfgang Drobetz*	Hamburg University	
	Nikos Nomikos	Cass Business School	

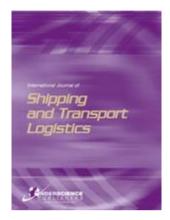
Sess	ion 18			
		Day 3	3: <b>16:00</b> – 1	L8:00
Chair	: Achim I. Czerny		Room: R	1109
A05	How LCC affects the marke	t structure of Taiwan international air transportation		
	Tien-Chun Ho Jin-Ru Yen*	National Taiwan Ocean University National Taiwan Ocean University		
A14	The strategy of air cargo ca	rriers – An analysis of their pricing, product and network stra	tegies	
	Wouter Dewulf*	University of Antwerp		
L18	Price and schedule rivalry			
	Achim I. Czerny* André de Palma	The Hong Kong Polytechnic University Ecole Normale Supérieure de Cacha		

Sess	Session 19				
		Day 3	<b>3</b> : 16:00 – 18:00		
Chair	: Jasmine Siu Lee Lam		Room: R1206		
M01	of risk factors for marine casualties and incidents				
	Tianhang Gao	Dalian Maritime University			
	Jing Lu	Dalian Maritime University			
M06	The challenges in rescuing refugees at sea: From the perspectives of shipmasters, authorities and ship-owners in Malaysia				
	Malvindran Ravie	Universiti Malaysia Terengganu			
	Mohd Hafizi Said	Universiti Malaysia Terengganu			
	Noorul Shaiful Fitri Abdul Rahman*	Universiti Malaysia Terengganu			
L16	Study on vulnerability of hazardous materials road transportation network based on gravity model: A case study of Guangzhou's highway road network				
	Huiling Zhong*	South China University of Technology			
	Jun Wang	South China University of Technology			
	Tsz Leung Yip	The Hong Kong Polytechnic University			
	Yimiao Gu	South China University of Technology			
M03	Cyclone risk model for seaport container terminals				
	Wei Jian	Nanyang Technological University			
	Chang Liu	Nanyang Technological University			
	Jasmine Siu Lee Lam*	Nanyang Technological University			

\*Presenting author

## **Special Issues**

High quality papers will be selected and recommended for publication in the special issues dedicated to IFSPA 2017



#### **International Journal of Shipping and Transport Logistics**

Special Issue on "Maritime Transportation: Innovative Models and Algorithms"

Guest Editors: Shuaian Wang Kjetil Fagerholt Dongping Song

Maritime transportation is the backbone of international trade. The maritime transportation system is a complex network consisting of many ports and shipping services. It is no easy task to coordinate such a complex system so that cargoes can be efficiently delivered from their origins to their destinations. Traditionally, a number of decisions for maritime transportation have been made by experience. This contrasts with the airline industry, which has extensively adopted optimisation-based decision support tools in their planning and scheduling decisions.

The aim of this issue is to improve the decision-making process of maritime transportation through the attraction and presentation of high-quality papers. The beneficiaries include, but are not limited to, academic researchers in the areas of maritime studies, quantitative analysis, logistics, and transportation engineering, shipping companies such as container shipping lines, bulk shipping companies, and LNG shipping companies, and terminal operators including container terminals, bulk cargo terminals, and general cargo terminals. We will make significant contributions to solutions addressing today's challenges for lowing the costs of maritime transportation in the trough of the shipping market.

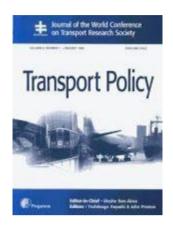
The issue will carry revised and substantially extended versions of selected papers presented at the International Forum on Shipping, Ports, and Airports (IFSPA 2017 Hong Kong), but we also strongly encourage authors unable to participate in the conference to submit articles for this call.

Topics include, but are not limited to, the following:

- Branch-and-cut-and-price for tramp ship routing and scheduling
- Stochastic and robust optimisation approaches for empty container repositioning
- Innovative methods for container shipping system optimisation
- Meta-heuristics for large-scale container terminal planning and scheduling
- Game theoretic methods for bulk cargo terminal management
- New models for LNG shipping networks
- Collaboration framework development between shipping lines and port operators

## **Special Issues**

High quality papers will be selected and recommended for publication in the special issues dedicated to IFSPA 2017



#### **Transport Policy**

Special Issue on "Innovative Solutions for Shipping Market Turmoil"

Guest Editors: Theo Notteboom

Dong Yang
Liping Jiang

The weakened economy and trade have sent shipping freight rates plunging since the 2008 recession. However, the 2016 shipping market is destined to be remembered by the incredible turmoil. The current bulk shipping industry remained sluggish and fluctuant, and liner shipping industry has been in turmoil, companies continued to build ever-bigger ships to capture economies of scale despite existing overcapacity in the market. The recent collapse of the Korean-based Hanjin Shipping Line, as the world's seventh-largest container carrier, has highlighted the turmoil in the maritime industry. Top container operators are busy rearranging their strategic alliances, partly as a result of a recent M&A wave in container shipping. To make a bad situation even worse, the world is also facing the slowdown in the Chinese economy, the consequences of the UK's exit from the EU and uncertainty on the medium and longer term effects of US trade policy under President Trump. Soon, the newly approved regulation of global 0.5% sulphur cap for 2020 will further challenge the profitability of already distressed shipping companies.

The market turmoil has left shipping practitioners and researchers at a great concern about the industry's future: What will the shipping industry do in response to the turmoil in the market? Shipping industry is increasingly characterized by its complexity, volatility and uncertainty. Innovation is a key strategy for responding to significantly changing circumstances. It is thus crucial for shipping managers to develop innovative solutions to address the contemporary issues and current challenges, and more importantly, to create sustainable and resilient shipping. These innovative solutions could be at strategic, tactic or operational levels and could manifest itself in the form of technological innovations, institutional reforms, process-driven innovations, or innovations in value creation and business models.

The aim of this issue is to inspire the researchers in transportation area to propose innovative solutions so as to shed a light on the industry agony. The beneficiaries include shipping carriers, government policy-makers, logistics operators, researchers and so on. The issue will make significant contributions to solutions addressing today's challenges in the trough of the shipping market. The issue will carry revised and substantially extended versions of selected papers presented at the International Forum on Shipping, Ports, and Airports (IFSPA) 2017, Hong Kong on 22-25 May 2017, but we also strongly encourage authors unable to participate in the conference to submit articles for this call.

Topics include, but are not limited to, the following:

- Economic analysis of shipping market
- Shipping business model innovation
- Vertical integration strategies of shipping lines (i.e. terminals, landside logistics, etc..)
- Shipping lines and data analytics/ IT solutions
- · Pricing and revenue management in shipping
- Innovation in liner shipping service networks
- Strategic alliances, mergers and acquisitions
- Ship investment decision
- The economic implication of emerging maritime technology
- Innovative ship management and operational strategies
- Application of big data in shipping
- Transportation innovation networks
- Shipping enterprise reorganization
- Transition to a sustainable and resilient shipping company
- New growth drivers for the shipping industry
- Environmental focus of shipping sustainability

# **Special Issues**

High quality papers will be selected and recommended for publication in the special issues dedicated to IFSPA 2017



#### **Maritime Business Review**

Special Issue on "Maritime Business Logistics"

Guest Editors: Kelvin Pang John Dinwoodie Seo Young-joon

Maritime business logistics is an important element which has direct impacts on numerous stakeholders in the whole supply chain. Companies have to deal with the ever-changing business environment through innovative methods and processes to become more efficient and effective. In addition, the training and retention of a talented pool of human resources is also crucial to the growth of the shipping industry which is experiencing a shortage of talent.

This special issue aims at collecting the latest research and practice on the processes of maritime business logistics. It will include subsequently extended versions of selected papers presented at the International Forum for Shipping, Ports and Airports (IFSPA 2017). We particularly welcome papers related to the main theme as well as other topics.

Topics include, but are not limited to, the following:

- Policy impact on maritime business logistics
- Supply chains in maritime business logistics
- Management careers and education in maritime business logistics
- Organisational behaviour issues in maritime business logistics
- Human resources and training development issues in maritime business logistics
- Logistics services in maritime business
- Sustainability issues in maritime business logistics
- · Applications of IT, big data, social media, and e-commerce in maritime business logistics
- Strategic alliances and collaborations in maritime business logistics

# Acknowledgements



IFSPA 2017 is proud to have invited the following worldwide prestigious scholars and practitioner as Keynote Speakers for this event:

#### **Keynote Speakers**

- Mr Peter Huijbers
   China International Aviation Leasing Service Co., Ltd.
   China
- Professor Gilbert Laporte HEC Montreal Canada
- Professor Robin Lindsey
   University of British Columbia
   Canada
- Professor Amedeo Odoni
   Massachusetts Institute of Technology
   USA
- Professor Anming Zhang
   University of British Columbia
   Canada

# Acknowledgements

The Organizing Committee would like to express its heartfelt thanks to the following supporting organizations and scholars for their invaluable inputs to the IFSPA 2017 conference.

#### **Supporting Organizations**

- Hong Kong Logistics Association
- Hong Kong Sea Transport and Logistics Association
- Institute of Chartered Shipbrokers Hong Kong Branch
- Institute of Seatransport
- Klook Travel
- The Chartered Institute of Logistics and Transport in Hong Kong









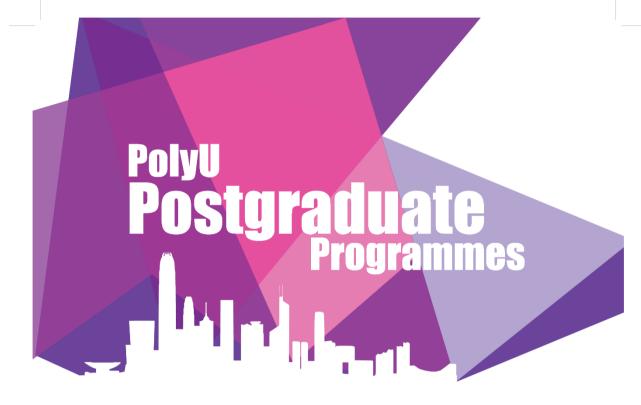




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## **About Hong Kong**



Positioned at the mouth of the Pearl River Delta on the coast of southern China, Hong Kong's geographical position as a gateway between the East and West has made it an attractive centre for international trade. As a reflection of this, the heart of Asia's world city has always been the bustling and beautiful Victoria Harbour. Hong Kong's 1,104-square-kilometer area comprises Hong Kong Island, which lies to the south of the harbour, the Kowloon Peninsula, which forms its northern shores, the New Territories to the north of Kowloon, which stretch all the way to Mainland China, and more than 200 outlying islands, including Lantau Island, where Hong Kong International Airport is located.

As one of the finest deep-water ports in the world, Victoria Harbour is one of Hong Kong's greatest assets, famous with its wonderful night scenes. Starting form 2004, a spectacular multimedia show named "A Symphony of Lights" has been launched and was awarded the world's "Largest Permanent Light and Sound Show" by Guinness World Records in 2005. The number of participating buildings has been expanded to involve 44 key buildings on both sides of Victoria Harbour. The show creates a comprehensive vision of colored lights, laser beams and searchlights performing an unforgettable and impressive scene synchronized to music and exposition that shows the energy, spirit and diversity of Hong Kong.

Public transportation via bus, ferry or train is efficient, inexpensive and user-friendly. The system covers extension areas of Hong Kong with signs in English and Chinese.

English is very widely spoken. There will be no problems in communicating with people in most hotels, restaurants and even some taxis.

### **Conference Tour**



#### **Explore Hong Kong**

Hong Kong has many sides to its complex personality and it's not every visitor who takes the time to explore these to their fullest. Come and discover a different side to the city with this series of tours that reveal its local foodie secrets or show you what cultural artefacts exist on its doorstep. These one-off special interest adventures will make your holiday unforgettable!



Hong Kong's unique culture and traditions are derived from a melting pot of both Western and Eastern influences. The Central district on Hong Kong Island is the financial heart of the city and has been developing since the inception of the British rule in 1841. Explore the East-meets-West elements with a stroll through some of the most interesting areas, including the Old Central Police Station, Central–Mid-levels Escalator, Man Mo Temple, PMQ and Lan Kwai Fong.



The charming Star Ferry boats have been faithfully carrying passengers from Hong Kong Island to Kowloon and back since 1888. While the two sides of Victoria Harbour are now connected by a world-class infrastructure system of road and rail tunnels, tens of millions of people still climb aboard the humble Star Ferry vessels each year. Many visitors take the ride for an up-close look at one of the world's most photographed harbours, while locals have kept their affection for it because, even after a century, it's still a highly reliable and efficient form of transport. National Geographic rates the Star Ferry crossing as one of 50 'places of a lifetime'.



If there is only one thing you can do in Hong Kong, go to The Peak. If you have many things to do here, still go to The Peak. The highest point on Hong Kong Island, this has been the city's most exclusive neighbourhood since colonial times — back then it was the cooler air that attracted the rich and famous; in the post air-conditioning era, the views of one of the world's most spectacular cityscapes keep them coming. By day your eyes stretch across sparkling skyscrapers and Victoria Harbour all the way to the green hills of the New Territories. In early evening this panorama melts into pink and orange before reincarnating as a dazzling galaxy of light, shimmering beneath you. And if you listen carefully enough, you can hear Asia's world city humming below.

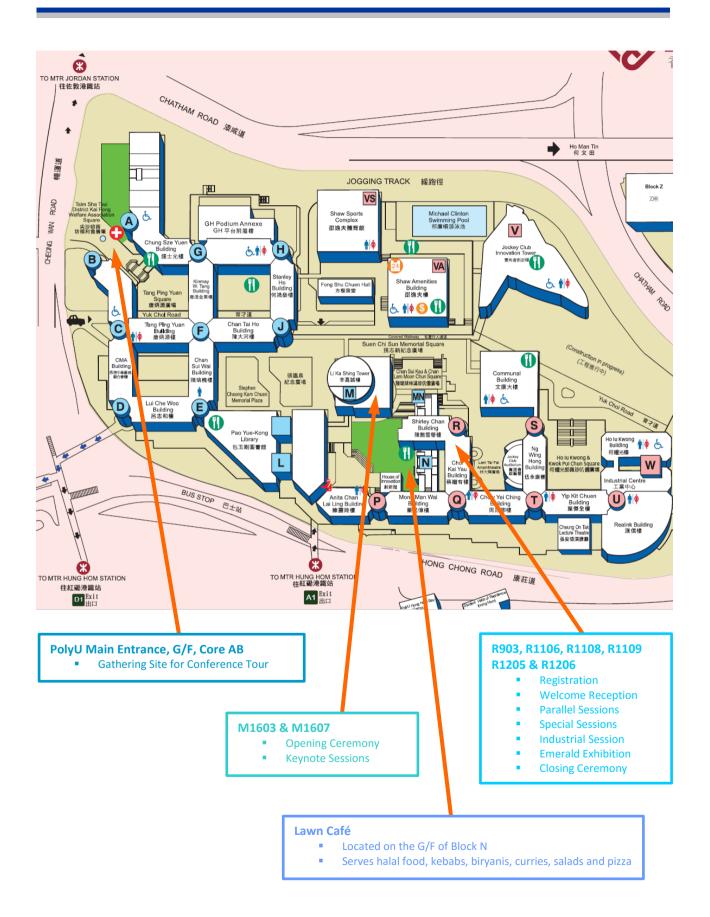




(Source: Hong Kong Tourism Board)

website: www.discoverhongkong.com

# Campus Map



# IFSPA 2017

The 9th International Forum on Shipping, Ports and Airports (IFSPA) 2017

