

Overview Schedule

Day 1: 14 December 2019 (Saturday)

Time	Event			
08:30 - 09:00	Registration (The Mira, 3/F)			
09:00 - 09:20	Opening Session (Ballroom One, 18/F)			
	Ir. Prof. S.C. WONG President, Hong Kong Society for Transportation Studies (HKSTS)			
	Dr. Andy H.F. CHOW Chair, 24th International Conference of Hong Kong Society for Transportation Studies			
	Ir. Prof. Richard K.K. Yuen Head, Architecture and Civil Engineering, City University of Hong Kong			
09:20 - 09:40	Keynote Address (Ballroom One, 18/F)			
	Mr. Frank Fan CHAN, JP Secretary for Transport and Housing, The Hong Kong SAR Government			
09:40 - 09:50	Photo Taking (Ballroom One, 18/F)			
09:50 - 10:30	Coffee Break (Ballroom Two 18/F)			
10:30 - 12:30	Plenary Session I (Ballroom One, 18/F)			
	Large-scale traffic simulation: recent advances based on the macroscopic fundamental diagram Prof. Ludovic Leclercq University of Lyon, IFSITTAR, France			
	Data-Driven Pro-active Transportation Safety in the Era of Connected & Autonomous Vehicles Prof. Kaan Ozbay New York University, U.S.A.			
	Interaction between individual drivers and traffic control: past initiatives and new opportunities Prof. Wei H. Lin The University of Arizona			
	Optimizing traffic signal with connected and autonomous vehicles in the traffic stream Prof. Lily Elefteriadou University of Florida, U.S.A.			
12:30 - 14:00	Conference Lunch (Yamm, The Mira, G/F)			
14:00 - 15:15	Session A1 (Function Room 3, 3/F) Regional and International Transportation	Session A2 (Function Room 4/6, 3/F) Outstanding Student Paper Award	Session A3 (Function Room 5/8, 3/F) Travel Behaviour I	Session A4 (Function Room 2, 3/F) Transport Safety
	Poster Session I (Ballroom One, 18/F)			
	Coffee Break (Ballroom Two 18/F and Function Room 1 3/F)			
	Transportmetrica B: Transport Dynamics (TTRB) – Editorial Board Meeting (VIP Room 1, 18/F)			
15:45 - 16:45	Poster Session II (Ballroom One, 18/F)			
15:45 - 17:00	Session B1 (Function Room 3, 3/F) Traffic Flow Theory I	Session B2 (Function Room 4/6, 3/F) Network Modelling I	Session B3 (Function Room 5/8, 3/F) Smart Mobility	Session B4 (Function Room 2, 3/F) Transit Scheduling
	17:15			
	Assemble at G/F Lobby of The Mira Hong Kong for departure to the Conference Banquet venue			
	18:00 - 20:00			
Conference Banquet (Hung Kee Seafood Restaurant, Sai Kung)				

Overview Schedule

Day 3: 16 December 2019 (Monday)

Time	Event				
08:30 - 09:00	Registration (The Mira, 18/F)				
09:00 - 10:15	Session C1 (Function Room 2, 3/F) Traffic Flow Theory II	Session C2 (Function Room 3, 3/F) Travel Behaviour II	Session C3 (Ballroom Three, 18/F) Transport and Big Data I	Session C4 (Ballroom Four, 18/F) Public Transport I	Transport Department Roving Exhibition (Function Room 4/6, 3/F)
10:15 - 10:45	Coffee Break (Ballroom Two, 18/F and Foyer, 3/F)				
	Transportmetrica A: Transport Science (TTRA) – Editorial Board Meeting (VIP Room 1, 18/F)				
10:45 - 12:00	Session D1 (Function Room 2, 3/F) Logistics and Operations Management	Session D2 (Function Room 3, 3/F) Network Modelling II	Session D3 (Ballroom Three, 18/F) Transport Infrastructure	Session D4 (Ballroom Four, 18/F) Public Transport II	Transport Department Roving Exhibition (Function Room 4/6, 3/F)
12:00 - 13:30	Conference Lunch (The Mira, G/F)				
13:30 - 14:45	Session E1 (Ballroom One, 18/F) Transport and Big Data II		Session E2 (Ballroom Three, 18/F) Transport and Environment		Session E3 (Ballroom Four, 18/F) Transportation, Society, and People
14:45 - 15:15	Coffee Break (Ballroom Two, 18/F)				
	Travel Behaviour and Society (TBS) – Editorial Board Meeting (VIP Room 1, 18/F)				
15:15 - 16:15	Plenary Session II (Ballroom One, 18/F)				
	Simultaneous scheduling of train units and crews Prof. Raymond Kwan University of Leeds, UK				
	Travel behaviour analytics based on cellular data Prof. Yu-Chiun Chiou National Chiao Tung University, Taiwan				
16:15 - 16:45	Closing Session (Ballroom One, 18/F)				
	Dr. Andy Chow and Prof. S.M. Lo Co-Chair, The 24th International Conference of Hong Kong Society for Transportation Studies				
	Dr. Ryan Wong and Prof. S.C. Wong Co-Chairs, The 25th International Conference of Hong Kong Society for Transportation Studies				

Detailed Presentation Schedule

Day 1: 14 December 2019 (Saturday)

Session A1: Regional and International Transportation (Function Room 3, 3/F) <i>Session Chair: Prof. Seungjae LEE</i>	
14:00 - 15:15	CONCEPTUALIZING MESH NETWORKS FOR BUILDING CONNECTIONS AS COST-EFFICIENT NETWORK TOPOLOGY FOR LOW-COST CARRIERS <u>Richard KLOPHAUS</u>
	DEVELOPING A MULTI-OBJECTIVE SEQUENCING MODEL FOR AIRCRAFT ARRIVAL SCHEDULING: CASE OF SUVARNABHUMI AIRPORT IN THAILAND Natthawut JIRATHAMMAWAT, Sarawut JANSUWAN and Anthony CHEN
	AN ANALYSIS OF INTERNATIONAL AIR TRAFFIC MOVEMENTS ON THE INTRA-REGIONAL AND INTER-CONTINENTAL LEVELS: A CASE STUDY IN ASIA <u>Hidenobu MATSUMOTO</u> and K. DOMAE
	EFFECTS OF HIGH-SPEED RAIL MEGALOPOLIS ON REGIONAL ECONOMIC GROWTH <u>Zhiwei YANG</u> , Fangni ZHANG, Wei LIU and Jingjuan JIAO
	AN ALTERNATIVE REGULATORY APPROACH FOR LONG-DISTANCE PASSENGER RAIL SERVICES: AN EXPLORATIVE ANALYSIS WITH A FOCUS ON GERMANY Andreas KNORR, Alexander EISENKOPF

Session A2: Outstanding Student Paper Award (Function Room 4/6, 3/F) <i>Session Chair: Dr. Lishuai LI</i>	
14:00 - 15:15	ZONAL-BASED ROUTE DESIGN ON FLEXIBLE TRANSIT UNDER VOLUME AND SPATIAL STOCHASTICITY Enoch LEE
	A NOVEL SURCHARGE-REWARD SCHEME TO MANAGE URBAN TRANSIT CONGESTION AND CROWDING <u>Yili TANG</u>
	SOLVING THE GREEN BIKE REPOSITIONING PROBLEM WITH BROKEN BIKES USING AN ENHANCED ARTIFICIAL BEE COLONY ALGORITHM <u>Yue WANG</u>

Detailed Presentation Schedule

Day 1: 14 December 2019 (Saturday)

Session A3: Travel Behaviour I (Function Room 5/8, 3/F) <i>Session Chair: Dr. Ryan Wong</i>	
14:00 - 15:15	QUANTIFYING SUBJECTIVE BELIEFS REGARDING WAITING TIME UNCERTAINTY IN PUBLIC TRANSPORT NETWORKS Sanmay SHELAT, Oded CATS and Hans VAN LINT
	EXPLORING PEDESTRIAN COUNTS IN A LARGE CENTRAL CITY AREA Youxin TAN, Lele ZHANG, Tingjin CHU and Logan WU
	THE EFFECT OF BUNDLE OPTION IN RIDE-SOURCING MARKETS ON TRAVEL BEHAVIOUR Zhengfei ZHENG, Hai YANG, Hai WANG and Jintao KE
	A STOCHASTIC BEHAVIOURAL MODEL OF PERSONAL MOBILITY UNDER MIXED TRAFFIC CONDITIONS Seunghyeon LEE, Ingon RYE and Keechoo CHOI

Session A4: Transport Safety (Function Room 2, 3/F) <i>Session Chair: Dr. Tony N.N. SZE</i>	
14:00 - 15:15	MOTORCYCLE-HEAVY VEHICLE CRASHES: USA DATA AND IMPLICATIONS FOR OTHER PARTS OF THE WORLD Richard HANOWSKI, Susan SOCCOLICH, Rebecca HAMMOND, Laurel GLENN, Mohd Khairul Alhapi Bin IBRAHIM and Ahmad Azad Bin AB RASHID
	UNDERSTANDING DRIVER BEHAVIOR IN RESPONSE TO VARIABLE MESSAGE SIGNS FOR SMART MOTORWAY MANAGEMENT SYSTEMS Phoebe HO, Kasun WIJAYARATNA and Vinayak DIXIT
	INTEGRATED SOLUTION ENHANCING OPERATIONAL SAFETY OF MANUAL DRIVING LIGHT RAIL Ka Chun NG and Shi Wing CHAN
	RISKS TO PEDESTRIANS IN TRAFFIC SYSTEMS WITH UNFAMILIAR DRIVING RULES Yun YE

Detailed Presentation Schedule

Day 1: 14 December 2019 (Saturday)

Session B1: Traffic Flow Theory I (Function Room 3, 3/F) <i>Session Chair: Prof. Takamasa IRYO</i>	
15:45 - 17:00	STUDY ON SPEED REDUCTION AT THREE LANE SECTION OF EXPRESSWAY CONSIDERING VEHICLE PLATOON AND LANE USAGE <u>Hayato NAKAGAMI</u> , Nobuhiro UNO, Toshiyuki NAKAMURA, Hiroyuki KAMEOKA, Kouji YAMAMOTO and Takashi YAMAMOTO
	A LINK-TO-LINK SEGMENT-BASED KRIGING METAMODEL FOR DYNAMIC NETWORK LOADING <u>Ashraf Uz Zaman PATWARY</u> , Wei HUANG and Hong K. LO
	ANALYSING DAY-TO-DAY AND WITHIN-DAY CHANGES OF RAMP-TO-RAMP TRAFFIC VOLUME ON URBAN EXPRESSWAY USING GAUSSIAN PROCESS Kenji IKEDA, Shohei YASUDA, <u>Takamasa IRYO</u> and Masaaki ISHIHARA
	A STOCHASTIC LIGHTHILL-WHITMAN-RICHARDS TRAFFIC FLOW MODEL <u>Tianxiang FAN</u> , S.C. WONG and Jie DU

Session B2: Network Modelling I (Function Room 4/6, 3/F) <i>Session Chair: Prof. Fumitaka KURAUCHI</i>	
15:45 - 17:00	SIMULATION ANALYSIS ON TRAFFIC CONTROL OF URBAN EXPRESSWAY BY FLEXIBLE TOLL CONFIGURATION <u>Mayu MIMURA</u> and Fumitaka KURAUCHI
	ZONE OF INFLUENCE OF SIGNALIZED INTERSECTIONS: A FIELD SURVEY Mohit Kumar SINGH and <u>Ramachandra Rao KALAGA</u>
	ACCESSIBILITY-BASED TRAFFIC ASSIGNMENT IN EXTREME ENVIRONMENTS <u>Jia YAO</u> , Haihua YANG, Anthony CHEN and Shi AN
	MULTI-CLASS STOCHASTIC USER EQUILIBRIUM ASSIGNMENT MODEL WITH RIDESHARING: FORMULATION AND POLICY IMPLICATIONS <u>Sujun SUN</u> and Wai Yuen SZETO

Detailed Presentation Schedule

Day 1: 14 December 2019 (Saturday)

Session B3: Smart Mobility (Function Room 5/8, 3/F) <i>Session Chair: Prof. Yudai HONMA</i>	
15:45 - 17:00	EQUILIBRIUM PROPERTIES OF ON-DEMAND RIDE-SPLITTING MARKETS IN THE PRESENCE OF CONGESTION EFFECTS Zhengfei ZHENG, Yaqian ZHOU, Jintao KE, Zheng ZHU and Hai YANG
	RNN-BASED SHORT-TERM DRIVING BEHAVIOR PREDICTION MODEL USING NATURALISTIC DRIVING DATA Yuren CHEN and Juan YANG
	REASONS, VALUES AND MOTIVES – THEIR ROLE IN FORMING USAGE INTENTIONS FOR ELECTRIC SCOOTER SHARING AMONG UNIVERSITY STUDENTS Timo ECCARIUS and Chung-Cheng LU
	RELATIONSHIPS BETWEEN AFV DEMAND ASSUMPTIONS AND AFS OPTIMAL LOCATIONS: A CASE STUDY OF TOKYO Yudai HONMA

Session B4: Transit Scheduling (Function Room 2, 3/F) <i>Session Chair: Prof. Shoufeng LU</i>	
15:45 - 17:00	A LOOK-FORWARD BUS HEADWAY CONTROL STRATEGY TO IMPROVE HEADWAY EQUALIZING AND ADHERENCE Fenghua WANG, Shoufeng LU and TingTing ZHU
	DANTZIG-WOLFE DECOMPOSITION ALGORITHM FOR HIGH-SPEED RAILWAY PASSENGER EQUILIBRIUM ASSIGNMENT Feng Shi, Runfa WU, Shuo Zhao, Guangming XU
	A MEAN-EXCESS EQUILIBRIUM ASSIGNMENT MODEL FOR RAILWAY NETWORKS Guangming XU and Anthony CHEN
	A MIXED ITINERARY-SIZE WEIBIT MODEL FOR ITINERARY CHOICE IN A SCHEDULE- BASED RAILWAY NETWORK Keyu WEN, Jiemin XIE, Anthony CHEN, S.C. WONG, S. ZHAN, S.M. LO and Lixia QIANG

Detailed Presentation Schedule

Poster Sessions I

Day 1: 14 December 2019 (Saturday)

Poster Session I (Ballroom One, 18/F)	
14:00 - 15:00 14 Dec 2019 (Saturday)	INTEGRATED TIMETABLE DESIGN METHOD FOR AN URBAN RAIL TRANSIT LINE: A DEEP REINFORCEMENT LEARNING APPROACH <u>Chengshuo YING</u> , Andy H.F. CHOW and Kwai-Sang CHIN
	EVALUATION OF SERVICE QUALITY OF PUBLIC TRANSPORTATION BASED ON KNOWLEDGE GRAPH <u>Yingpei LIU</u> , Ye LI and Zhongzhong YANG
	BUS EVALUATION OPTIMIZATION MODEL IN URBAN LOCAL DISASTER ENVIRONMENT <u>Xiaodan CUI</u> , Xingang LI and Ying SHANG
	ADAPTIVE NETWORK TRAFFIC SIGNAL CONTROL WITH APPROXIMATE DYNAMIC PROGRAMMING <u>Zicheng SU</u> and Andy CHOW
	MULTI-OBJECTIVE TRANSIT NETWORK DESIGN AND TIMETABLING OPTIMIZATION WITH TWO-STAGE GENETIC ALGORITHM <u>Thi Minh Hoa NGUYEN</u> and Andy H.F. CHOW
	IMPROVING POST DISASTER HUMANITARIAN LOGISTICS WITH THEORETICAL AND EMPIRICAL APPROACHES <u>Riki KAWASE</u> , Junji URATA and Takamasa IRYO
	WAVELET-BASED TRANSVERSE CRACK DETECTION OF ASPHALT PAVEMENT <u>Shishi ZHOU</u> and Qun YANG
	EFFECTIVE ENFORCEMENT AND PENALTY STRATEGIES TO COMBAT SPEEDING OFFENCE OF PROFESSIONAL DRIVERS <u>Tiantian CHEN</u> , N.N. SZE and Lu BAI
	PORT CONNECTIVITY IN GLOBAL CONTAINER SHIPPING NETWORK: IMPLICATIONS FOR COMPETITIVENESS IN THE CONTEXT OF THE 21ST CENTURY MARITIME SILK ROAD <u>Cheng-Hsien HSIEH</u> and Wei Yim YAP
	DISAGGREGATED AND AGGREGATED LEVELS FACTORS AFFECTING THE RED LIGHT RUNNING BEHAVIOR OF PEDESTRIAN <u>Dianchen ZHU</u> , N.N SZE and Lu BAI
	APPLICATION OF THE ROSE DIAGRAM TO ROAD NETWORK ANALYSIS <u>Kota NAGASAKI</u> , Wataru NAKANISHI and Yasuo ASAKURA
	EVALUATING PUBLIC TRANSPORT AND ONE-WAY CARSHARING SYSTEM SYNERGY CONSIDERING PROFITS AND ACCESSIBILITY IMPROVEMENTS <u>Masahiro KUWAHARA</u> , Akira YOSHIOKA, Ryuto OGATA, Jan-Dirk SCHMÖCKER, Nobuhiro UNO and Toshiyuki NAKAMURA
	SEMI-DYNAMIC TRAFFIC ASSIGNMENT WITH SENSITIVITY ANALYSIS USING LINK-BASED STOCH3 ALGORITHM <u>Tien Thiem BUI</u> , Shoichiro NAKAYAMA and Hiromichi YAMAGUCHI

Detailed Presentation Schedule

Poster Sessions I

Day 1: 14 December 2019 (Saturday)

Poster Session I (Ballroom One, 18/F)	
14:00 - 15:00 14 Dec 2019 (Saturday)	AN EMPIRICAL INVESTIGATION ON SERVICES-LED TAXI HAILING APP ADOPTION: A CONCEPTUAL MODEL OF SERVICE QUALITY <u>Benson K.H. HUNG</u>
	TEACHING OPERATIONS RESEARCH METHODS IN LINER SHIPPING Lingxiao WU, Wei ZHANG and Shuaian WANG (Presenter: <u>Jingwen QI</u>)
	EVALUATION OF THE INFLUENCE OF STRICTER SULPHUR LIMITS WITHIN EMISSION CONTROL AREA ON PORT STATE CONTROL INSPECTION Ran YAN and Shuaian WANG
	INFERRING BICYCLE FACILITY TYPE FROM GPS TRAJECTORIES USING LONG SHORT-TERM MEMORY RECURRENT NEURAL NETWORKS Jiazuo ZHOU, Qianqian DU and <u>Feng ZHU</u>
	BACKGROUND KNOWLEDGE REPRESENTATION FOR PAVEMENT SURFACE CONDITION ASSESSMENT BY USING ONTOLOGY Peilong HE and Qun YANG
	AN ANALYSIS OF DRIVER BEHAVIOR INFLUENCED BY DIGITAL SIGNBOARDS USING EYE-TRACKING HMD AND A DRIVING SIMULATOR Dohoon KIM, Dongmin LEE and Taehyeon EOM
	OPTIMAL SUBSTITUTE BUS SERVICE ROUTING PLAN FOR METRO DISRUPTION MANAGEMENT Shuyang ZHANG, Cen ZHANG and Hong K. LO
	ANALYSIS OF INFLUENCING FACTORS AND GROWTH TREND OF URBAN RAILWAY PASSENGER DEPARTURES VOLUME Jinyang LI, Cen ZHANG and Jing TENG
	A RELATION BETWEEN COGNITIVE ABILITIES AND A DRIVING PERFORMANCE BASED ON A DRIVING SIMULATOR Sooncheon HWANG, Dongmin LEE and Sunhun KIM
	SPATIO-TEMPORAL DEMAND MODEL FOR BIKE SHARING SYSTEM Xinyue WU, Fangce GUO, Aruna SIVAKUMAR and Andy CHOW
	A LIGHTWEIGHT DESIGN SCHEME FOR TRACTION SYSTEM OF MEDIUM AND LOW SPEED MAGLEV TRAIN Ruijie CHAO, Guobin LIN and Zhixun MA
	USE OF CULTURAL CONSENSUS ANALYSIS METHOD FOR EXPERT DECISION MAKING TO DERIVE THE APPROPRIATE DESIGN ELEMENT ON URBAN STREETS Gunki CHUNG and Dongmin LEE
	RELIABILITY-BASED TRAFFIC ASSIGNMENT MODEL CONSIDERING MIXED TRAFFIC FLOW OF AUTOMATED AND CONNECTED VEHICLES AND HUMAN-DRIVEN VEHICLES Ryuichi TANI and Kenetsu UCHIDA

Detailed Presentation Schedule

Poster Sessions I

Day 1: 14 December 2019 (Saturday)

Poster Session I (Ballroom One, 18/F)	
14:00 - 15:00 14 Dec 2019 (Saturday)	OPTIMAL LUMINANCE RATIO OF VARIABLE MESSAGE SIGNS AS EXTERNAL ILLUMINATION Jungho CHO and Dongmin LEE
	ON THE CHARACTERISTICS OF WI-FI PACKET SENSORS FOR TRAFFIC AND PEDESTRIAN FLOW OBSERVATION Guanghui ZHOU, Fumitaka KURAUCHI and Shuhei MYOKO
	ESTIMATION OF TRAVEL TIMES ON URBAN ROADS WITH AND WITHOUT DETECTED DATA Ang LI and William H.K. LAM
	A MODEL-FREE DATA-DRIVEN PERIMETER CONTROL FOR MACROSCOPIC DYNAMIC TRAFFIC SYSTEMS Can CHEN, A. SUMALEE, R. ZHONG, Z. MA and Y. HUANG
	CYCLISTS INJURED IN TRAFFIC CRASHES IN HONG KONG: TIME FOR ACTION Pengpeng XU, Ni Dong, S.C. WONG and Helai HUANG
	SIGNAL TIMING OPTIMIZATION ALGORITHM FOR THE INTERSECTION CONNECTED WITH THE EXPRESSWAY Shiwei LIU, Baokun ZHANG and Ying LI
	INVESTIGATING THE RELATIONSHIPS BETWEEN PERCEIVED VALUES, BRAND ATTACHMENT, PSYCHOLOGICAL OWNERSHIP AND BRAND CITIZENSHIP BEHAVIOR IN THE CONTEXT OF PUBLIC BIKE SHARING-SYSTEM Ching-Fu CHEN, Yi-Xuan CHEN, Po-Jen MU and Yu Huan YU

Detailed Presentation Schedule

Poster Sessions II

Day 1: 14 December 2019 (Saturday)

Poster Session II (Ballroom One, 18/F)	
15:45 - 16:45 14 Dec 2019 (Saturday)	AN ALGORITHM BASED ON HYBRID HEURISTIC FOR CUSTOMIZED BUS NETWORK DESIGN PROBLEM <u>Yining HU</u> and Nobuhiro UNO
	RECONSTRUCTION OF INDIVIDUAL TRANSIT TRIPS BASED ON BEHAVIOR CHARACTERS USING MUTI-SOURCE DATA Cen ZHANG and Jing TENG
	ISOLATION VULNERABILITY EVALUATION OF DISASTER PREVENTION BASE ON ROAD NETWORK BASED ON MINIMUM (+A) CUT Satoshi SUGIURA, Masahiro NAKASHIMA and Fumitaka KURAUCHI
	TRANSPORT EQUITY: A SPATIO-TEMPORAL ANALYSIS OF COMMUTING IN HONG KONG Ka Ho TSOI
	TRANSPORT-ORIENTED POLYCENTRIC OPTIMAL DEVELOPMENT CONTROL Hong-Zhi LIN
	A GENERAL FRAMEWORK OF COMBINING TRAFFIC FLOW MODELS AND BAYESIAN INFERENCE FOR TRAFFIC PARAMETERS ESTIMATION Shuling WANG, Wei HUANG and Hong K. LO
	TRAJECTORY-BASED AUTOMATED INCIDENT DETECTION FOR TRANSIENT PERIODS Yunping HUANG, Agachai SUMALEE and Renxin ZHONG
	ANALYSIS OF CAPACITY DROP IN FREEWAY-RAMP MERGES WITH EMPIRICAL OBSERVATIONS USING UAV Chin Yi LIAO, G.S LIN and Ka Io WONG
	EQUILIBRIUM TRIP SCHEDULING AND MODE CHOICE IN A RIDE-SOURCING MARKET UNDER TRAVEL TIME UNCERTAINTY Zheng LIANG, Gege JIANG and Hong K. LO
	THE SUPERSTATION REPRESENTATION OF METRO NETWORKS FOR OVERCOMING DATA AVAILABILITY ISSUES OF STATION-TO-STATION ORIGIN DESTINATION PAIRS – AN APPLICATION ON THE LONDON UNDERGROUND Tamás NÁDUDVARI, Ronghui LIU and Chandra BALIJEPALLI
	MODELLING URBAN LOCATION AND TRAVEL CHOICES IN PATH FLOW ESTIMATOR Yu GU, Anthony CHEN and Guoyuan LI
	CONFLICT-BASED SAFETY ASSESSMENT USING AUTOMATED VIDEO-BASED TRAJECTORY DATA Ren-Wei JENG and Ka Io WONG
	THE COUNTEREFFECT BETWEEN LINK AND STOP BUS HEADWAY DEVIATION Guojun CHEN, Weilun CHEN, Shuyang ZHANG and Haode LIU
WHICH FACTOR AFFECTS RESIDENTS' CHOICE PREFERENCE FOR AN INTEGRATED TRANSPORT BETWEEN PASSENGER AND GOODS? : A CASE STUDY IN A JAPANESE RURAL AREA Hyewon NAMGUNG, Akimasa FUJIWARA and Makoto CHIKARASHI	

Detailed Presentation Schedule

Poster Sessions II

Day 1: 14 December 2019 (Saturday)

Poster Session II (Ballroom One, 18/F)	
15:45 - 16:45 14 Dec 2019 (Saturday)	MEASURING NETWORK CAPACITY OF URBAN RAIL TRANSIT NETWORK <u>Yingying XU</u> , Anthony CHEN and Yung-Cheng LAI
	A COLUMN GENERATION APPROACH FOR TRAIN-SET CIRCULATION PLAN PROBLEM Yu ZHOU, Hai YANG and Yun WANG
	MINING ORIGIN-DESTINATION FLOW PATTERNS OF BICYCLE SHARING: ASSOCIATION WITH LAND USE DIFFERENCES Hsien-Hao LO and Tzu-Chang LEE
	BIG DATA, DEEP LEARNING, AND TRANSPORTATION: A META-ANALYSIS Varun VARGHESE, Makoto CHIKARAISHI and Junji URATA
	A SENSITIVITY ANALYSIS OF ACCELERATION OF VEHICLES CONSIDERING FOLLOWING STABILITY Masami YANAGIHARA and H. ONEYAMA
	DRIVERS' ROUTINE CHOICE BEHAVIORS BASED ON LOCAL INFORMATION IN A MANHATTAN-LIKE URBAN TRAFFIC NETWORK Ji ZHANG, Zhe SHENG and Li-Yun DONG
	CONSTRUCTION SITE LAYOUT FOR MINIMIZATION OF TRANSPORTATION COST: STEP-BY-STEP TEACHING APPROACH Wen YI, Shuaian WANG and Maria ATTARD
	DATA-DRIVEN MECHANISM ANALYSIS OF URBAN EXPRESSWAY TRAFFIC DEMAND Chengyuan MA, Cheng ZHANG and Xiaoguang YANG
	DEMAND-DRIVEN ANALYSIS OF BOT CONTRACT DESIGN UNDER DEMAND UNCERTAINTY Lin DENG, Zhijia TAN, William H.K. LAM
	LOCATION DESIGN AND PRICING OF BIKE-AND-RIDE SERVICE IN A LINEAR MONOCENTRIC CITY C.S. SHUI and W.Y. SZETO
	MARKET ANALYSIS OF ELECTRIC VEHICLE SHARING USING MARKET SEGMENTATION APPROACH Hongliang DING, N.N. SZE and Shunchao WANG
	USER EQUILIBRIUM TRAFFIC ASSIGNMENT BASED ON LINK PERFORMANCE FUNCTION MODELED BY A NEURAL NETWORK Daniyar KURMANKHOJAYEV, Anthony CHEN, Gulnur TOLEBI, and Nurlan DAIRBEKOV
	DRIVERS' HIERARCHY STRATEGY AND TAILORED RIDE-MATCHING ALGORITHM IN RIDE-HAILING MARKET Xiaoran QIN, Hai YANG, Hai WANG
	THE VALUE OF ROUTE PLANNING DATA FOR ORIGIN-DESTINATION ESTIMATION AND PREDICTION Cheng ZHANG, Chengyuan MA, Xiaoguang YANG, William HK LAM, Yuelong SU and Zhenning DONG
CONSTRUCTING SIMULATION MODEL FOR LIGHT RAIL SERVICES IN HONG KONG Haydn O.H. KWOK, Andy H. F. CHOW	

Detailed Presentation Schedule

Poster Sessions II

Day 1: 14 December 2019 (Saturday)

Poster Session II (Ballroom One, 18/F)	
15:45 - 16:45 14 Dec 2019 (Saturday)	OPTIMAL INTEGRATED PLATOONING OF AUTONOMOUS TRUCKS Qiaolin <u>HU</u> , Weihua GU and Shuaian WANG
	THE TAXI SHARING PROBLEM WITH ELECTRIC TAXIS CONSIDERING RECHARGING OPERATIONS Xingbin ZHAN and Wai Yuen SZETO
	AN ORDERED LOGIT MODEL FOR IMPROVEMENT AREAS OF MINIBUS SERVICES R.C.P. WONG, Linchuan YANG, W.Y. SZETO and Reynold CHENG

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session C1: Traffic Flow Theory II (Function Room 2, 3/F) <i>Session Chair: Dr. Mehmet YILDIRIMOGLU</i>	
09:00 - 10:15	MODELING THE EFFECTS OF LANE-CHANGING FREQUENCY ON URBAN ROADS Xiaomeng SHI and William LAM
	ADAPTIVE COORDINATED TRAFFIC SIGNAL CONTROL: A ROLLING HORIZON OPTIMIZATION SCHEME Lubing LI, Hong K. LO and Wei HUANG
	SPEED PLANNING FOR AUTONOMOUS VEHICLES WITH CONFLICT MOVING OBJECTS Xiaowei SHI and Xiaopeng LI
	A METHODOLOGY TO ESTIMATE THE MACROSCOPIC FUNDAMENTAL DIAGRAM (MFD) USING THE CRITICAL LINKS IN AN URBAN NETWORK Elham SAFFARI, Mehmet YILDIRIMOGLU and Mark HICKMAN

Session C2: Travel Behaviour II (Function Room 3, 3/F) <i>Session Chair: Dr. Sen LI</i>	
09:00 - 10:15	USERS' WILLINGNESS TO ADOPT MOBILITY AS A SERVICE IN SHIGA, JAPAN Orva Stephen AGBE and Yasuhiro SHIOIMI
	CONGESTION SURCHARGE AND WAGE REGULATION ON TRANSPORTATION NETWORK COMPANIES WITH CONGESTION EXTERNALITIES Sen LI, Akhil SHETTY, Kameshwar POOLLA and Pravin VARAIYA
	PEDESTRIAN TRAVEL BEHAVIOR ANALYSIS IN SHOPPING DISTRICTS OF THE CITY CENTER – FOCUSING ON ALTERATION OF INITIAL ACTIVITY PLANS Kazuki TERAYAMA and Michiyasu ODANI
	AN OBSERVATIONAL SURVEY FOR RED LIGHT RUNNING BEHAVIOR OF BICYCLIST Lu BAI and Tony SZE

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session C3: Transport and Big Data I (Ballroom Three, 18/F) <i>Session Chair: Prof. Renxin ZHONG</i>	
09:00 - 10:15	A REINFORCEMENT LEARNING BASED APPROACH FOR ON-LINE VEHICLE ROUTING PROBLEM E.M.LIANG, R.X. ZHONG
	USING DATA MINING METHODS TO EXPLORE SPATIAL AND TEMPORAL DYNAMICS OF PERCEIVED SERVICE QUALITY OF METRO SYSTEMS: EVIDENCE FROM SHENZHEN Shuli LUO and Sylvia HE
	SHORT-TRAFFIC STATE PREDICTION USING THE FRAMEWORK OF GATED RECURRENT UNIT: A CASE STUDY IN KAMAKURA, JAPAN Kohei OGAWA and Daisuke FUKUDA
	NATIONWIDE PASSENGER FLOW FORECASTING: A SPATIOTEMPORAL DEEP LEARNING APPROACH Yuxin HE, Yang ZHAO and Kwok Leung TSUI

Session C4: Public Transport I (Ballroom Four, 18/F) <i>Session Chair: Prof. Song GAO</i>	
09:00 - 10:15	A MODEL-FREE BATCH REINFORCEMENT LEARNING APPROACH FOR VACANT TAXI ROUTING WITH E-HAILING Xinlian YU and Song GAO
	DECENTRALIZED CRUISING IN TAXI SYSTEMS Amir Hosein VALADKHANI, Linji CHEN, Xiao Xi HOU and Mohsen RAMEZANI
	TOWARDS A SUSTAINABLE USE OF ELECTRIC VEHICLES: THE DESIGN OF A STAND ADAPTATION WEB SURVEY TOOL Jia GUO, Silvino CUMBANE, Gyözö GIDOFALVI and Yusak SUSILO
	MODELING AND ANALYSIS OF A TAXI MARKET WITH A MONOPOLY TAXI OWNER AND MULTIPLE RENTEE-DRIVERS Baicheng LI

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session D1: Logistics and Operations Management (Function Room 2, 3/F) <i>Session Chair: Dr. Yong-Hong KUO</i>	
10:45 - 12:00	MEETING POINTS IN RIDESHARING SYSTEM Hai YANG, Rakibul HASSAN and Jintao KE
	NON-EMERGENCY PATIENTS TRANSPORTATION WITH THE CONSIDERATION OF USER INCONVENIENCE Jamal Abdul NASIR, Yong-Hong KUO and Reynold CHENG
	DEMAND CLUSTERING FOR BIKE-SHARING SYSTEMS BY COMMUNITY MINING Yijia WANG, Yong-Hong KUO, George Q. HUANG, Weihua GU and Yaohua HU
	A STUDY OF LOADING ZONE USAGE IN MELBOURNE CENTRAL CITY AREAS Shengjie WANG, Lele ZHANG and Russell THOMPSON
	OPTIMAL WAREHOUSE LOCATIONS FOR AUTONOMOUS DRONE DELIVERY SYSTEMS J.S. LAMB and S.C. WIRASINGHE

Session D2: Network Modelling II (Function Room 3, 3/F) <i>Session Chair: Dr. Zhen (Sean) QIAN</i>	
10:45 - 12:00	DYNAMIC CALIBRATION OF MICROSCOPIC TRAFFIC SIMULATION AT SAGS Mariko NAKAI and Yasuhiro SHIOMI
	OPTIMIZATION OF TRAFFIC COUNT LOCATIONS FOR ESTIMATION OF STOCHASTIC ORIGIN-DESTINATION DEMANDS UNDER UNCERTAINTY WITH SENSOR FAILURE Hao FU, William H.K. LAM and Hu SHAO
	AN ANTICIPATORY TRAFFIC CONTROL AND TRAFFIC ASSIGNMENT MODEL WITH THE IMPACT OF REAL-TIME INFORMATION Nam H. HOANG and Hai L. VU
	ESTIMATING MULTI-CLASS DYNAMIC ORIGIN-DESTINATION DEMAND THROUGH A FORWARD-BACKWARD ALGORITHM ON COMPUTATIONAL GRAPHS Wei MA, Xidong PI And Zhen (Sean) QIAN

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session D3: Transport Infrastructure (Ballroom Three, 18/F) <i>Session Chair: Prof. Yung-Cheng LAI</i>	
10:45 - 12:00	THE IMPACT OF MULTIPLE INFRASTRUCTURE INVESTMENTS ON CROSS-BORDER ECONOMIC INTEGRATION Yuk-Shing CHENG, Becky P.Y. LOO and Roger VICKERMAN
	OPTIMAL INFRASTRUCTURE REINVESTMENT AND SUPPLY IN URBAN RAIL SYSTEMS: A DYNAMIC OPTIMIZATION APPROACH Praj XUTO, Richard ANDERSON, Daniel GRAHAM and Daniel HÖRCHER
	MAINTENANCE TASK GENERATION AND ASSIGNMENT FOR RAIL INFRASTRUCTURE WITH PREDICTIVE MAINTENANCE Shao-Chi CHIEN, Yung-Cheng LAI, Kwei-Long HUANG and Kwok Leung TSUI
	ROADMAP AND REALISATION OF SMART MAINTENANCE IN HONG KONG RAILWAY NETWORK Tony K.Y. LEE, Ryan C. M. LAM, Shera P.W. LAI and Matthew Y.C. TSANG

Session D4: Public Transport II (Ballroom Four, 18/F) <i>Session Chair: Dr. Sarawut JANSUWAN</i>	
10:45 - 12:00	DETERMINANTS OF USAGE INTENTION FOR FULLY-AUTONOMOUS RIDE-SHARING SYSTEM: A CASE STUDY IN JAPAN Yusuke KITA, Daisuke FUKUDA and Ryosuke ABE
	RIDE-SOURCING PRICING UNDER TRAVEL TIME VARIABILITY Manzi LI, Gege JIANG and Hong K. LO
	UNDERSTANDING REGULARITY OF MOBILITY PATTERNS OF BUS PASSENGERS USING SMART CARD DATA Cheshen LIU, K.I. WONG, W.K. KU and K.P. KOU
	RESOURCE-DERIVATIVE TRAIN DISPATCHING APPROACH FOR BALANCING TEMPORAL AND SPATIAL CAPACITY ALLOCATION: HIGH SPEED RAIL RESPONSE APPLICATION Shuguang ZHAN, Xuesong ZHOU, S. C. WONG, Qiyuan PENG and S.M. LO

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session E1: Transport and Big Data II (Ballroom One, 18/F) <i>Session Chair: Prof. Daniel J. GRAHAM</i>	
13:30 - 14:45	UNDERSTANDING DOCKLESS BIKE SHARE AS FEEDER MODE OF METRO Yuanyuan GUO and Ying Sylvia HE
	LATENCY PREDICTION BASED ON REAL TIME DATA IN THE TAIWAN HIGHWAY SYSTEM Tsz Hong KWOK, Yulin XU, Tat Shing CHOI and K. Y. Michael WONG
	MAAS ECONOMICS: SHOULD WE FIGHT CAR OWNERSHIP WITH SUBSCRIPTIONS TO ALTERNATIVE MODES? Daniel HÖRCHER and Daniel J. GRAHAM
	WHAT IMPACT DO SAFETY INSPECTIONS PROGRAMS HAVE ON ACCIDENT FATALITY RATES? Prithvi ACHARYA and H Scott MATTHEWS

Session E2: Transport and Environment (Ballroom Three, 18/F) <i>Session Chair: Prof. Yves BOQUET</i>	
13:30 - 14:45	PLANNING FOR GREEN TRANSPORTATION: THE DESIGN AND IMPLEMENTATION OF BICYCLE LANES IN FRENCH CITIES Yves BOQUET
	USING HDPE AND PET RECYCLED PLASTIC FOR STONE MASTIC ASPHALT PAVEMENT Nattaporn CHAROENTHAM and Panuwat NGAMDEE
	THE DEMAND FOR ELECTRIC VEHICLES: FINDINGS FROM A RECENT SURVEY IN HONG KONG Sylvia HE and Ka Kit SUN
	MODELLING AND EVALUATION DRIVER BEHAVIOUR AND VEHICLE EMISSIONS OF URBAN MIXED TRAFFIC STREAMS WITH VARIABLE AUTONOMOUS VEHICLE PENETRATION Simon HU, Konstantinos ZAVITSAS, Panagiotis ANGELOUDIS and Marc STETTLER

Detailed Presentation Schedule

Day 3: 16 December 2019 (Monday)

Session E3: Transportation, Society and People (Ballroom Four, 18/F) <i>Session Chair: Dr. Hyun Chan KIM</i>	
13:30 - 14:45	USING ADAPTIVE WINDOW VIBRATION INFORMATION TO BETTER PREDICT RIDING COMFORT <u>Yuanlu LIANG</u> and Zhang CHEN
	CHOICE OF MICRO-MOBILITY: CASE STUDIES OF PUBLIC BIKE SHARING SYSTEM IN NEW ZEALAND Hyun Chan KIM and Tae Hwan KIM
	ANALYSIS OF MOTORCYCLE ACCIDENT SEVERITY INFLUENCE IN THAILAND USING DEEP LEARNING Nattaporn CHAROENTHAM, Arthit SRIKAEW and Kunawee KANITPONG
	THE ROLE OF CROWD FORCE: A REVIEW <u>Haoyang LIANG</u> and S. C. WONG