



6.4 Oral Programme

*Presenting Author(s)

		TOPIC A: TRANSPORT MODES - GENERAL			
	A1: Air Transport and Airports				
	Monday, 27 May 2019				
		A1 – OS1 – Airlines			
		Room: VMCC 01			
		Session Chair: Christian Bontemps			
14:30-16:10	A1_OS1_01	Size versus efficiency: A case study of US commercial carriers B. Unsal*, M. Aroney*, M. Badr*, Embry Riddle Aeronautical University, USA			
	A1_OS1_02	Will low-cost carriers also disrupt long-haul services? A. Knorr* ¹ , A. Eisenkopf ² , A. Lueg-Arndt ³ , ¹ German University of Administrative Sciences Speyer, Germany, ² Zeppelin University Friedrichshafen, Germany, ³ Frankfurt University of Applied Sciences, Germany			
	A1_OS1_03	A two-stage model of airline competition C. Bontemps* ^{1,2} , K. Remmy ² , ¹ Ecole Nationale Aviation Civile, France, ² Toulouse School of Economics, France			
		Tuesday, 28 May 2019			
		A1 – OS2: Airports			
		Room: VMCC 01			
		Session Chair: Kun Wang			
09:30-11:10	A1_OS2_01	Optimization methodology for departure slots at slot coordinated passenger airports based			
		on processing element bottlenecks S. Weerasekara*, V. Adikariwattage, University of Moratuwa, Sri Lanka			
	A1_OS2_02	The impact of logistics and intermodality on airport efficiency			
	A1_032_02	X. Fernández*, J. Gundelfinger, P. Coto-Millán, <i>Universidad Cantabria, Spain</i>			
	A1_OS2_03	Evaluating passenger stress at airports to enhance passenger experience D. Amorim Da Cunha* ¹ , B. Aguiar ¹ , R. Macário ^{1,2} , V. Reis ¹ , ¹ Universidade de Lisboa, Portugal, ² University of Antwerp, Belgium			
	A1_OS2_04	Airport pricing when airport congestion affects passengers' concession consumption K. Wang*1, L. Corbo2, W. Xia3, T. Oum3, 1University of International Business and Economics, China, 2Universidade Católica Portuguesa, Portugal, 3University of British Columbia, Canada			
	A1_OS2_05	Analysing and modelling the relationship between air freight movement and airport characteristics in India M. Veerappan*1, P. Sahu*1, A. Pani*1, G. Patil², A. Sarkar1, ¹Birla Institute of Technology and Science Pilani, India, ²Indian Institute of Technology Bombay, India			
	A1	L – OS3: Emerging market, Economic impact and Tourism - 1			
		Room: VMCC 01			
11:30-13:10	A1_OS3_01	Session Chair: Katsuya Hihara Modelling of air traffic demand forecasting using a dynamic systems for assessment of			
11.30-13.10	V1_032_01	readiness on the development of Indonesian airports E. Yuliawati*, Research and Development Agency Ministry of Transportation Indonesia, Indonesia			
	A1_OS3_02	A critical review on regional connectivity scheme of India K. Iyer, N. Thomas*, Indian Institute of Technology Delhi, India			





	A1_OS3_03	Economic impacts of business aviation in Europe S. Maertens* ¹ , N. Nahas ² , D. Shah ³ , C. Wollersheim ³ , A. Leipold ¹ , H. Keimel ⁴ , ¹ German Aerospace Center, Germany, ² Booz Allen Hamilton, USA, ³ Formerly Booz Allen Hamilton, USA, ⁴ Formerly German Aerospace Center, Germany
	A:	L – OS4: Emerging market, Economic impact and Tourism - 2 Room: VMCC 01 Session Chair: Dimitrios Dimitriou
16:30-18:10	A1_OS4_01	A review of domestic air transportation in India B. Kodanda* ¹ , P. Bhanumurthy ² , ¹ CSIR-National Aerospace Laboratories, India, ² Jawaharlal Nehru Technological University, India
	A1_OS4_02	Air transport development in Eastern Europe in relation to economic growth S. Zaharia*, C. Pietreanu, Politehnica University in Bucharest, Romania
	A1_OS4_03	Appraisal of economic impact diversification by a new airport development D. Dimitriou* ^{1,2} , M. Sartzetaki ^{1,2} , ¹ Democritus University of Thrace, Greece, ² Athens International Airport, Greece
		Wednesday, 29 May 2019
		A1 – OS5: Network - 1 Room: VMCC 01 Session Chair: Jose Sallan
09:30-11:10	A1_OS5_01	Complex networks of the air passenger traffic in Monterrey's airport O. Shirai Reyna*, I Flores De La Mota*, UNAM, Mexico
	A1_OS5_02	
	A1_OS5_03	Evaluation of flights schedule at tourist airports towards network connectivity D. Dimitriou ^{1,2} , M. Sartzetaki* ^{1,2} , A. Karagkouni ^{1,2} , ¹ Democritus University of Thrace, Greece, ² Athens International Airport, Greece
	A1_OS5_04	The significance of air cargo revenues at the selection process of new destinations for passenger transport. nice-to-have or crucial contribution? W. Dewulf*, H. Meersman, E. Van de Voorde, <i>University of Antwerp, Belgium</i>
		A1 – OS6: Network - 2
		Room: VMCC 01
11:30-13:10	A1_OS6_01	Session Chair: Xiaowen Fu Network assessment of Tier–II Indian cities' airports in terms of type, accessibility, and connectivity S. Bansal*, J. Sen, IIT Kharagpur, India
	A1_OS6_02	
	A1_OS6_03	Effects of affecting factors on air route frequency Y. Wang*, J. Wong, National Chiao Tung University, Taiwan
	A1_OS6_04	Passengers' perception of safety and its relationship with demographics, service quality, satisfaction and loyalty in airlines sector N. Shiwakoti*, H. Jiang, A. Nguyen, <i>RMIT University, Australia</i>
	A1_OS6_05	The evolution of China's international aviation markets from a policy perspective on air passenger flows J. Wang*¹, H. Yang*², H. Wang³, ¹Chinese Academy of Sciences, China, ²East China Normal University, China, ³Beijing International Engineering Consulting Co., Ltd, China





		A1 – OS7: New technology and Innovation
		Room: VMCC 01
		Session Chair: Chantal Roucolle
16:30-18:10	A1_OS7_01	Potential policy issues with flying car technology
10.30-18.10	A1_03/_01	A. Mofolasayo*, <i>N/A, Canada</i>
	A1 OS7 02	WITHDRAWN
		Does innovation give incentives to innovate in air transport?
		I. Laplace ¹ , C. Roucolle ^{*1} , T. Denis ² , ¹ Université de Toulouse, France, ² Université Panthéon - Assas, France
	A1_OS7_04	Passenger comfort and trust on first-time use of a shared autonomous shuttle vehicle D Paddeu*, G. Parkhurst, J. Flower, M. Ricci, I. Shergold University of the West of England, United Kingdom
		Thursday, 30 May 2019
		A1 – OS8: Operation
		Room: VMCC 01
		Session Chair: Suiling Li
09:30-11:10	A1_OS8_01	Large-scale model and solution for integrated maintenance routing and tail assignment problem in airline industry
		A Jayaraj*, R. Sridharan*, V V Panicker*, National Institute of Technology Calicut, India
	A1_OS8_02	Developing a framework to incorporate risk considerations in to runway high speed exit design
		S Galagedera*, H Pasindu*, V. Adikariwattage, <i>University of Moratuwa, Sri Lanka</i>
	A1_OS8_03	Service level analysis of airline baggage handling counter at Penghu airport S Li*, National Penghu University of Science and Technology, Taiwan
	A1_OS8_04	Some strategies of enhancing airline schedule reliability and airfield operation performance for congested airports S Li*, National Penghu University and Science and Technology, Taiwan
	A1_OS8_05	Benefits of emotional labor for airlines N Okabe*, Yokohama National University, Japan

	A2: Maritime Transport and Ports				
	Monday, 27 May 2019				
	A2 – OS1: Port Typologies Room: VMCC 02 Session Chair: Joost Hintjens				
14:30-16:10	A2_OS1_01	A critical analysis of seaport research field classifications: Explicit and implicit shortcomings in methodologies and categorizations K Ibrahimi* ^{1,2} , S. Ibrahimi ³ , ¹ Independent Researcher, Albania, ² Global Humanistic University, Curaçao, ³ University of Vlora, Albania			
	A2_OS1_02	Container ports taxonomy and capacity appraisal of container terminals. Application to the United Kingdom's deep-water container ports system. M Buitrago*, University of Southampton, United Kingdom			
	A2_OS1_03	Critical data quality elements in ports: The case for port rankings K Ibrahimi* ^{1,2} , S. Ibrahimi ³ , ¹ Independent Researcher, Albania, ² Global Humanistic University, Curaçao, ³ University of Vlora, Albania			

A2_OS1_04 Major ports of India – Paradigm strategy



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		S.	Kavita*, Cochin Uni	iversity of Science an	d Technolog	y, India	
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		S. Kavita*, Cochin University of Science and Technology, India
	A2_OS1_05	Traffic evolution and competition among Italian containers terminals
		S. Carrese ¹ , S. Giambattista ¹ , T. Murgia ² , M. Nigro ¹ , M Petrelli* ¹ , A. Renna ¹ , ¹ Roma Tre
		University, Italy, ² Via dell'Arco de' Ginnasi, Italy
		A2 – OS2: Port Performance
		Room: VMCC 02
		Session Chair: Edwin van Hassel
16:30-18:10	A2_OS2_01	Why container specialisation make a difference: An efficiency analysis of the Spanish port authorities
		X Fernández*, S. Hidalgo, S. Perez, P. Coto-Millán, <i>Universidad Cantabria, Spain</i>
	A2_OS2_02	Container terminal efficiency: Case of Le Havre – Hamburg
		S Nduna*, T. Vanelslander, E. Van de Voorde, H. Meersman, <i>University of Antwerp, Belgium</i>
	A2_OS2_03	Efficiency and productivity of Nigerian seaports in the pre and post concessioning periods O Ugboma*1, K Oyesiku*2, 1Lagos State University, Nigeria, 2Olabisi Onabanjo University, Nigeria
	A2_OS2_04	Introducing critical quality elements in port research: The case for port research field classifications K Ibrahimi* ^{1,2} , S. Ibrahimi ³ , ¹ Independent Researcher, Albania, ² GHU Global Humanistic
		University, Curaçao, ³ University of Vlora, Albania
	A2_OS2_05	Port activity and technical efficiency: determinants and external factors H. Ghiara ¹ , A Tei* ² , ¹ University of Genoa, Italy, ² Newcastle University, United Kingdom
	-	Tuesday, 28 May 2019
		A2 – OS3: Shipping Strategies
		Room: VMCC 02
		Session Chair: Valentin Carlan
09:30-11:10	A2_OS3_01	A tripartite model of shipping digitalization: Findings from a multi-case study M Lambrou*1, D. Watanabe2, J. Iida3, 1University of the Aegean, Greece, 2Tokyo University of Marine Science and Technology, Japan, 3National Institute for Land and Infrastructure Management, Japan
	A2_OS3_02	Ex-ante performance assessment of the vessel train project: Testing the applicability of key 'transport infrastructure indicators' for non-infrastructure transport projects E Moschouli*, University of Antwerp, Belgium
	A2_OS3_03	Belt and road: More competition between sea and rail? A generalized cost approach H. Meersman, N. Sutalo, E. Van de Voorde, E Van Hassel*, T. Vanelslander, <i>University of Antwerp, Belgium</i>
	A2_OS3_04	Cooperative and collaborative spirit indices between supply chain members C. Kim ¹ , J. Dinwoodie ² , S Roh* ² , ¹ Ministry of Oceans and Fisheries, Korea, Republic of, ² University of Plymouth, United Kingdom
		A2 – OS4: Shipping Impacts Room: VMCC 02 Session Chair: Jeroen Pruyn
16:30-18:10	A2_OS4_01	Effects of BRI strategy on Mediterranean shipping transport F. Claudio ¹ , A Tei* ² , ¹ University of Genoa, Italy, ² Newcastle University, United Kingdom
	A2_OS4_02	Factors affecting the growth of maritime centers in west and central Africa: evidence from Nigeria I Ogwude*, Federal University of Technology, Nigeria





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	A2_OS4_03	Socio-economic evaluation of alternative technologies to mitigate sulphur emissions in maritime container transport
		S Mohseni*, E Van Hassel*, C Sys*, T Vanelslander*, <i>University of Antwerp, Belgium</i>
	A2_OS4_04	The economic impact of marine environmental emission reduction policy on shipowners and social welfare – CBA perspective
		E Ben Hakoun* ¹ , E. Van De Voorde ² , Y. Shiftan ¹ , ¹ Israel Institute of Technology, Israel, ² Antwerp University, Belgium
		Wednesday, 29 May 2019
		A2 – OS5: Shipping Operations
		Room: VMCC 02
		Session Chair: Alessio Tei
14:30-16:10	A2_OS5_01	Benchmarking delivered bulkers on the energy efficiency of their design
		J Pruyn*, Delft University of Technology, Netherlands
	A2_OS5_02	WITHDRAWN
	A2_OS5_03	Environmentally sound management of ship wastes: challenges and opportunities for
		European ports
		G Argüello*, University of Gothenburg, Sweden
	A2_OS5_04	Baltic Exchange index changes and FFA hedging efficiency
		R Adland*, G. Aarheim, O. Holseter, Norwegian School of Economics (NHH), Norway
		A2 – OS6: Supply Chain Strategies
		Room: VMCC 02
		Session Chair: Eleni Moschouli
16:30-18:10	A2_OS6_01	Cooperation in the hinterland of adjacent seaport authorities, empiricalization for the
		European TEN-T core ports
		J Hintjens*, University of Antwerp - TPR, Belgium
	A2_OS6_02	A queue model to reduce truck waiting time in sea-port: The Port of Chennai, India
		R Das*, H. Tashiro, Nippon Koei Co., LTD, Japan
	A2_OS6_03	Blockchain technology as key contributor to the integration of maritime supply chain: myth or
		reality
		V Carlan* ¹ , F. Coppens ² , C. Sys ¹ , T. Vanelslander ¹ , G. Van Gastel ² , ¹ University of Antwerp,
		Belgium, ² National Bank of Belgium, Belgium
	A2_OS6_04	Modeling different European freight scenarios and impacts for north Rhine Westphalia
		C. Doll ¹ , J. Köhler ¹ , W. Schade ² , S. Mader ² , E Van Hassel ^{*3} , T. Vanelslander ³ , ¹ ISI, Germany, ² M-
		Five GmbH, Switzerland, ³ TPR, University of Antwerp, Belgium

	A3: Rail Transport			
	Monday, 27 May 2019			
	A3 – OS1: Strategic Issues			
	Room: VMCC 03			
	Session Chair: John Preston			
14:30-16:10	4:30-16:10 A3_OS1_01 Mega transportation infrastructure: A sustainable foresight			
		K. Gharehbaghi, K. Robson, F Rahmani*, RMIT University, Australia		





A3_OS1_02	Transportation development for regional infrastructure: Implications for Australian rural areas K. Gharehbaghi, I. Clarkson, N. Hurst, F Rahmani*, RMIT University, Australia
A3_OS1_03	"Side-business" development in Japanese major private passenger railways — What can we learn from their experiences? R. Miki*1, H. leda*2, ¹Tobu Railway Co. Ltd., Japan, ²Graduate Research Institute for Policy
A3_OS1_04	Fare strategies and head-on competition. The case of Italian rail market P Beria*1, S. Tolentino1, A. Bertolin1, G. Filippini2, 1Politecnico di Milano, Italy, 2META Planning srl, Italy
A3_OS1_05	Comparative analysis of Delhi metro travel demand post phase 2 expansion D Bhatt*1, M2, A. U. Ravi Shankar1, National Institute of Technology Karnataka, India, CSIR-CRRI, India
	Tuesday, 28 May 2019
	A3 – OS2: Rail Operations I
	Room: VMCC 03
	Session Chair: John Preston
A3_OS2_01	A concept for situation- and demand-responsive collective passenger information in regional trains T Monzert*1, M Boltze*1, L Fornauf*2, 1Technische Universität Darmstadt, Germany, 2DB Regio AG, Germany
A3 OS2 02	Risk assessment model for railway passengers on crowded platforms
A3_032_02	T Kato*, S. Terabe, H. Yaginuma, N. Kang, K. Tanaka, <i>Tokyo University of Science, Japan</i>
A3_OS2_03	Developing an operational philosophy for Britain's Railways J Armstrong* ¹ , J. Preston ¹ , I. Hood ² , ¹ University of Southampton, United Kingdom, ² Arup, United Kingdom
	A3 – OS3: Rail Operations II
	Room: VMCC 03
	Session Chair: John Preston
A3_OS3_01	Overtakes and dwell time delays for Japanese commuter trains C Palmqvist* ^{1,2} , N. Tomii ³ , ¹ K2 – The Swedish Knowledge Centre for Public Transport, Sweden, ² Lund University, Sweden, ³ Chiba Institute of Technology, Japan
A3_OS3_02	Exploring the effects of inter- and intra-modal competition on prices and frequencies in the railway markets: Evidence from Europe F Laroche*, A. Lamatkhanova, University of Lyon, France
A3_OS3_03	
A3_OS3_04	The criterion for optimal rescheduling in mixed train traffic B Davydov*1, A. Mishra2, 1Far Eastern State Transport University, Russian Federation, 2Indian Railways, India
	A3 – OS4: Rail Operations III
	Room: VMCC 03 Session Chair: John Preston
A3_OS4_01	Exploring the effect of occupancy information on passengers' behaviour change to relieve train crowding
	A3_OS1_04 A3_OS1_05 A3_OS2_01 A3_OS2_02 A3_OS2_03 A3_OS3_01 A3_OS3_01 A3_OS3_04





	V3 US/1 U3	Analysis of delay causes in Mumbai suburban western railway network
	A3_034_02	Y Singh*, V Kalyanakrishnan*, V. Varekar, <i>Veermata Jijabai Technological Institute, India</i>
	A2 OCA 02	
	A3_US4_U3	Modelling of locomotive for semi –high speed operations with higher hauling capacity in
		indian railways
		G Vaitheeswaran*, B. Shaji, R. Nagarajan, V. Chandar S, Saveetha School of Engineering, India
	A3_OS4_04	Safety culture in High-Speed railways and importance of top-management decisions
		N Bugalia*, Y. Maemura, K. Ozawa, The University of Tokyo, Japan
	A3_OS4_05	Estimation of risk to pedestrians on rail tracks on Mumbai suburban
		S Darbamulla* ^{1,2} , G. Tiwari ¹ , S. Mukherjee ¹ , ¹ Indian Institute of Technology Delhi, New Delhi,
		India, ² Indian Railways, India
		Wednesday, 29 May 2019
		A3 – OS5: Rail Miscellany
		Room: VMCC 03
		Session Chair: John Preston
11:30-13:10	A3_OS5_01	Time-series economic effect of developing MAGLEV among metropolitan areas in Japan
		considering urbanization economies
		T Sato*, M. Shiraishi, Chiba Institute of Technology, Japan
	A3 OS5 02	Assessing the evolution of railway wheelsets wear using a statistical modelling approach
		J A P Braga*, A. R. Andrade, <i>Universidade de Lisboa, Portugal</i>
	A3_OS5_03	Hyperloop – A system engineering analysis
		l Hansen*, Delft University of Technology, Netherlands

		M. Bood Transport				
	A4: Road Transport					
		Monday, 27 May 2019				
		A4 – OS1: Cars and Taxis				
		Room: VMCC 04				
		Session Chair: Manoranjan Parida				
14:30-16:10	A4_OS1_01	Analysing the ride sharing behaviour in ICT based cab services: A case of Mumbai, India P Shah*, V. Varghese, A. Jana, T. Mathew, Indian Institute of Technology Bombay, India				
	A4_OS1_02	Predicting lessee switch behavior using logit models J Feilzer* ^{1,2} , D. Stroosnier ¹ , E. Dugundji ² , ¹ Pricewaterhouse Coopers, Netherlands, ² Vrije Universiteit Amsterdam, Netherlands				
	A4_OS1_03	Consumers' perception towards hatchback and sedan cars in Indian megacities R Bera*, B. Maitra, Indian Institute of Technology Kharagpur, India				
		Tuesday, 28 May 2019				
		A4 – OS2: User Behavior Room: VMCC 04 Session Chair: Shashi Nambisan				
11:30-13:10	A4_OS2_01	In-vehicle visuo-spatial distraction and expertise in gaze behavior P Sanjram*, S Najar*, Indian Institute of Technology Indore, India				
	A4_OS2_02	Determinants of bus seat belt usage behavior: A qualitative study M. Ghaffari ¹ , S. Rakhshanderou ² , Y. Mehrabi ³ , H. Soori ⁴ , O. Simsekoglu ^{5,6} , J Harooni* ⁷ , ¹ Shahid Beheshti University of Medical Sciences, Iran, Islamic Republic of. ² Nord University, Norway, ³ Norwegian University of Science and Technology, Norway				





	A4_OS2_03	The effects of demography and personality on urban travel habits J Roos*1,2, F. Sprei ¹ , U. Holmberg ² , ¹ Chalmers University of Technlology, Sweden, ² University of Gothenburg, Sweden
	A4_OS2_04	WITHDRAWN
	A4_OS2_05	Analysis of modal choices and behaviors of commuters on Ikorodu- Lagos island axis, Lagos, Nigeria W. Alade ¹ , M Olaseni* ² , ¹ University of Lagos, Nigeria, ² Yaba College of Technology, Nigeria
	'	A4 – OS3: Public Transport Systems
		Room: VMCC 04
		Session Chair: Mohammad Shafi Mir
16:30-18:10	A4_OS3_01	The study of influencing factors on the coopetition relationship between public bus and bike-sharing C Zhang*, H. Zhou, Beijing Jiaotong University, China
	A4_OS3_02	BRT (Bus Rapid Transit) system evaluation by global comparison in world cities F. Soufian, H Haghshenas*, P. Hajian, Isfahan University of Technology, Iran, Islamic Republic of
	A4_OS3_03	Spatial distribution of intercity passenger terminals in Lagos, Nigeria M Olaseni*1, W. Alade², K. Oyesiku³, ¹Yaba College of Technology, Nigeria, ²University of Lagos, Nigeria, ³Olabisi Onabanjo University, Nigeria
	A4_OS3_04	The cause effect relationship model of service quality in relation with overall satisfaction B. R. Naveen*, A. Gurtoo, <i>Indian Institute of Science, India</i>
		Wednesday, 29 May 2019
		A4 – OS4: Spatial Models
		Room: VMCC 04
		Session Chair: R. Jayakrishnan
09:30-11:10	A4_OS4_01	A comparative study of data-driven and model-based approaches for corridor-level travel- time estimation R Sharmila*1, N. Velaga¹, A. Kumar², ¹IIT Bombay, India, ²IIT Kharagpur, India
	A4_OS4_02	A weighted k-NN based approach for corridor level travel-time prediction S Rb*, N. R Velaga, IIT, India
	A4_OS4_03	Relationship between economic development and road traffic crashes and casualties: Empirical evidence from Nigeria Y Akinyemi*, University of Ibadan, Nigeria
	A4_OS4_04	Developing a risk-based decision-making vehicle route selection framework I Sahnoon*, A. De Barros, L. Kattan, M. Dann, <i>University of Calgary, Canada</i>
	A4_OS4_05	A vulnerability mathematical model for port transportation road network W Wenyuan*, L. Hui, G. Zijian, P. Yun, State Key Laboratory of Coastal and Offshore Engineering / Dalian University of Technology, China





	TOPIC B: FREIGHT TRANSPORT AND LOGISTICS				
	B1: Logistics and Freight Transport Operations				
	Monday, 27 May 2019				
		B1 – OS1: Freight Transport Networks Room: VMCC 05 Session Chair: Gunnar Stefansson			
14:30-16:10	B1_OS1_01	Strategical upturn of reverse Logistic in loop with Crowd shipping: Transportation explication for India C Upadhyay* ¹ , G. Annamalai Vasantha ² , B Pandiya* ¹ , ¹ Indian Institute of Information Technology Allahabad, India, ² University of Strathclyde, United Kingdom			
	B1_OS1_02	Blockchain for and in logistics: What to adopt and where to start M Dobrovnik* ¹ , D Herold* ² , E. Fuerst ¹ , S. Kummer ¹ , ¹ WU (Vienna University of Economics and Business), Austria, ² Griffith University, Australia			
	B1_OS1_03	Optimizing ambulance locations for coverage enhancement of accident sites in South Delhi S Wajid*1, N. N¹, A. Unnikrishnan², ¹Indian Institute of Technology, Delhi, India, ²Portland State University, USA			
	B1_OS1_04	Experimental evaluation of mobile multipurpose solar hybrid refrigeration system S Kumar*, R. Bharj, Dr. B.R. Ambedkar National Institute of Technology, India			
	B1_OS1_05	Is blockchain a solution for logistics and freight transportation problems? E Irannezhad*, University of Queensland, Australia			
		Tuesday, 28 May 2019			
		B1 – OS2: Innovations and Freight Transport Issues Room: VMCC 05 Session Chair: Jonas Floden/Johan Woxenius			
11:30-13:10	B1_OS2_01	Role of Chittagong port authority to develop other national ports in Bangladesh to provide maritime logistics support in South Asia R Saha*, Bangladesh University of Professionals, Bangladesh			
	B1_OS2_02	Port infrastructure and supply chain integration: Case of the apparel industry in South Asia Y Park*1, R. Dossani ² , ¹ Seoul National University, Korea, Republic of, ² Rand Corporation, USA			
	B1_OS2_03	A stakeholder analysis of actors and networks for land transport of dangerous goods J Flodén*, J Woxenius*, University of Gothenburg, Sweden			
	B1_OS2_04	Performance assessment of alternative Mediterranean transport networks by combining KPIs and Factor-Cluster Analysis P Serra*, P Fadda*, G Fancello*, DICAAR - University of Cagliari, Italy			

B2: Humanitarian Logistics in Disasters			
Tuesday, 28 May 2019			
	B2 – OS1: Humanitarian Logistics in Disasters Room: VMCC 05 Session Chair: Arnab Jana		
09:30-11:10		Critical success factors of sustainable supply chain management and organizational performance: An exploratory study R Pradhan*1, D. Prasad¹, K. Gaurav¹, A. K. Sabat², ¹Indian Institute of Technology Kharagpur, India, ²Steel Authority of India Limited, India	





	Effective handling of emergencies in resource constrained urban areas by considering dynamics: A performance analysis
	V Kumar*, K. Ramamritham, A. Jana, Indian Institute of Technology Bombay, India
B2_OS1_03	Humanitarian relief sustainability: A framework of humanitarian logistics digital business
	ecosystem
	B Baffoe*, W. Luo, Shanghai Maritime University, China

		B3: Intermodal Freight Transport
		Wednesday, 29 May 2019
		B3 – OS1: Intermodal Road/Rail Freight Transport Room: VMCC 05 Session Chair: Ralf Elbert
11:30-13:10	B3_OS1_01	Towards a modal shift of freight from road to rail in Japan: Reviews of infrastructure investment and track access charges J Mizutani*1, S. Fukuda², ¹Kobe University, Japan, ²Seinan Gakuin University, Japan
	B3_OS1_02	Combined Transport in the Alpine region: reasons behind a difficult acceptance and possible solutions to overcome them F Cavallaro*¹, G. Sommacal¹, S. Božičnik², M. Klemenčič², ¹Eurac Research, Italy, ²University of Maribor, Slovenia
	B3_OS1_03	Two levels modeling of container choosing and mode choice between road and rail for increasing the containerized rail modal share S. Mohri, H Haghshens*, V. Salehi, Isfahan University of Technology, Iran, Islamic Republic of
	B3_OS1_04	Network planning and design in multimodal transportation under consideration of uncertainty R Elbert*, J Müller*, Technische Universität Darmstadt, Germany
	B3_OS1_05	Exploring relevant information attributes to improve access management in intermodal freight transportation S. Jacobsson ¹ , P Arnäs* ¹ , G. Stefansson ^{1,2} , ¹ Chalmers University of Technology, Sweden, ² University of Iceland, Iceland
		B3 – OS2: Maritime Transport Chains Room: VMCC 05 Session Chair: Bart Wiegmans
14:30-16:10	B3_OS2_01	Dry port integration into a supply chain: Outcome-driven supply chain perspective A Khaslavskaya*, V. Roso, Chalmers University of Technology, Sweden
	B3_OS2_02	
	B3_OS2_03	A framework for evaluating the potential for using air-maritime integration in modern supply chains A Karunathilake*, V. Adikariwattage, University of Moratuwa, Sri Lanka
	B3_OS2_04	Dry and wet inland ports: defining more powerful roles vis-à-vis seaports B Wiegmans*1, P. Witte², V. Roso³, ¹TU Delft, Netherlands, ²Utrecht University, Netherlands, ³Chalmers University of Technology, Sweden
	B3_OS2_05	Dedicated freight corridor: Current challenges G Raghuram*, A. Verma, Indian Institute of Management Bangalore, India





		B4: Urban Goods Movement
		Tuesday, 28 May 2019
		B4 – OS1: Urban Rail, Tram and Case Studies Room: VMCC 04
		Session Chair: Anne Goodchild
09:30-11:10	B4_OS2_01	Battery electric vehicles for urban freight transport: An evaluation
05.50 11.10	54_652_61	T Teoh*, Delft University of Technology, Netherlands
	B4_OS2_02	Locational context for warehouse facilities in urban areas: a case study in Belo Horizonte (Brazil)
		L De Oliveira* ¹ , G. Lopes ¹ , R. de Oliveira ² , L. Bracarense ³ , ¹ Universidade Federal de Minas Gerais, Brazil, ² Federal Center for Technological Education of Minas Gerais, Brazil, ³ Federal University of Tocantins, Brazil
	B4_OS2_03	Estimating emissions from urban freight trips M Middela*, S. Mahesh, S. Sripada, S. Kancharla, G. Devi, G. Ramadurai, Indian Institute of Technology, India
	B4_OS2_04	Urban consolidation and cargo bikes: a simulation study R Elbert*, C Friedrich*, Technische Universität Darmstadt, Germany
		Wednesday, 29 May 2019
		B4 – OS2: Consolidation, Cargo Cycles and Electric Vehicles
		Room: VMCC 04
		Session Chair: Michael Browne
11:30-13:10	B4_OS1_01	Urban rail system for freight distribution in a mega city: Case study of Delhi, India M Singh*, S. Gupta, School of Planning and Architecture, India
	B4_OS1_02	Assessment of urban freight travel characteristics - A case study of Delhi M Errampalli*1, R. Kayitha1, R. Chalumuri1, L. Tavasszy2, J. Borst3, S. Chandra1, 1Central Road Research Institute, India, 2TU Delft, Netherlands, 3TNO, Netherlands
	B4_OS1_03	Characteristics of urban freight traffic in a medium size Indian city – a case study of Udaipur, Rajasthan S. Gupta*, K. Sinha*, School of Planning and Architecture, India
	B4_OS1_04	How to make urban freight transport by tram successful? K. De Langhe*, H. Meersman, C. Sys, E. Van de Voorde, T. Vanelslander, <i>University of Antwerp, Belgium</i>
	B4 –	OS3: Last Mile Challenges: Loading Activity and Delivery Routes
		Room: VMCC 04
		Session Chair: Eiichi Taniguchi
16:30-18:10	B4_OS3_01	Characterization of freight trip from textile powerloom units – A case study of Surat, India B Dhonde* ^{1,2} , C Patel* ² , ¹ Uka Tarsadia University, India, ² Sardar Vallabhbhai National Institute of Technology, India
	B4_OS3_02	Modeling a time-differentiated policy for management of loading bays in urban areas M. Wilson, M Janjevic*, M. Winkenbach, Massachusetts Institute of Technology, USA
	B4_OS3_03	Getting rid of fixed delivery areas: the implications of dynamic vehicle routing on a German parcel delivery company F. Vallée, C Schulz*, J. Robert, <i>University of Applied Sciences Münster, Germany</i>
	B4_OS3_04	Quantifying parking conflicts of (un)loading bays' usage in Santiago's CBD, Chile A Buerklen*, Technische Universität Berlin, Germany





	Thursday, 30 May 2019		
	B4 – OS4: Case Studies, Simulation and Understanding Stakeholders		
		Room: VMCC 04	
		Session Chair: Johan Woxeniu	
09:30-11:10	B4_OS4_01	Modelling freight in SimMobility, a multi-scale agent-based urban simulation platform T. Sakai ¹ , A. Alho ¹ , B Bhavathrathan* ² , G. Dalla Chiara ³ , R. Gopalakrishnan ³ , P. Jing ⁴ , T. Hyodo ⁵ , L. Cheah ³ , M. Ben-Akiva ⁴ , ¹ Singapore-MIT Alliance for Research and Technology, Singapore, ² Indian Institute of Technology Palakkad, India, ³ Singapore University of Technology and Design, Singapore, ⁴ Massachusetts Institute of Technology, USA, ⁵ Tokyo University of Marine Science and Technology, Japan	
	B4_OS4_02	Estimating direct and indirect impacts of off-hour deliveries: Propositions for a simulation framework A Beziat*, Transport Urban Planning Economics Laboratory, France	
	B4_OS4_03	Sustainability in last-mile delivery – A mixed method approach investigating the value (co-) creating relationships between stakeholders S. Knöchel ¹ , B Gammelgaard* ² , ¹ Albert-Ludwigs-Universität Freiburg, Germany, ² Copenhagen Business School, Denmark	

•	B5: Freight Transport Modeling			
	Monday, 27 May 2019			
	B5 – OS1: Optimization Road			
		Room: VMCC 11		
		Session Chair: Hanno Friedrich		
14:30-16:10	B5_OS1_01	Order first split second algorithm for pickup and delivery problems with multiple full truckload demands		
		T Ghorpade*, N. Rangaraj, ¹ Indian Institute of Technology, India		
	B5_OS1_02	Optimization of downstream fuel logistics based on road infrastructure conditions and exposure to accident events		
		V. Cuneo ¹ , R. Pizzuti ¹ , M. Nigro ¹ , S Carrese* ¹ , C. Ardito ² , G. Marseglia ³ , ¹ Roma Tre University, Italy, ² RAN Innovation Srl Viale della Piramide Cestia, Italy, ³ Università degli Studi, Italy		
	B5_OS1_03	Assessment of sustainable initiatives in the Containerized freight railways of India using Fuzzy AHP framework		
		C. P. Garg*, V. Kashav*, University of Petroleum & Energy Studies, India		
		Tuesday, 28 May 2019		
		B5 – OS2: Optimization Air, Rail and Maritime		
		Room: VMCC 11		
		Session Chair: Lorant Tavasszy		
09:30-11:10	B5_OS2_01	Redirecting freight trains: an exact optimization approach K Anoop*, V Panicker*, National Institute of Technology Calicut, India		
	B5_OS2_02	Improving landside operations of an air cargo terminal R. Romero-Silva ^{1,2} , M Mujica Mota* ² , ¹ Universidad Panamericana, Mexico, ² Amsterdam University of Applied Sciences, Netherlands		
	B5_OS2_03	Design and optimization of an innovative two-hub-based ro-ro network in the Mediterranean area P Fadda*1, G Fancello*1, S. Mancini², C. Pani¹, P Serra*1, ¹DICAAR - University of Cagliari, Italy, ²University of Cagliari, Italy		





	B5_OS2_04	Domain independent planning for air cargo movement M Venkata Sai Rishita* ¹ , M. Appala Raju ² , T. Harris ³ , ¹ RNS Institute Of Technology, India, ² Christ (Deemed to be University), India, ³ IIT Bombay, India
		B5 – OS3: Urban Transport Room: VMCC 11 Session Chair: Hanno Friedrich
16:30-18:10	B5_OS3_01	Motorised and non-motorised urban freight trip attraction patterns in developing economies N De Bakshi* ¹ , G. Tiwari ¹ , N. Bolia ¹ , J. Holguin-Veras ² , ¹ Indian Institute of Technology, Delhi, India, ² Renesselaer Polytechnic Institute, USA
	B5_OS3_02	The incremental development path of an empirical agent-based simulation system for urban goods transport (MASS-GT) M De Bok*1,2, L. Tavasszy¹, I. Bal¹, S. Thoen¹, ¹Delft University of Technology, Netherlands, ²Significance, Netherlands
	B5_OS3_04	Development of urban freight travel demand model M Errampalli* ¹ , R. Kayitha ¹ , R. Chalumuri ¹ , L. Tavasszy ² , J. Borst ³ , S. Chandra ⁴ , ¹ CSIR-Central Road Research Institute, India, ² Delft University of Technolgy (TU-Delft), Netherlands, ³ TNO, Netherlands, ⁴ CSIR-Central Road Research Institute, India
		Wednesday, 29 May 2019
		B5 – OS4: National Transport Room: VMCC 11 Session Chair: Gernot Liedtke
11:30-13:10	B5_OS4_01	Cost, transit time and speed elasticity calculations for the European continental freight transport B Jourquin*, M. Beuthe, UCLouvain, Belgium
	B5_OS4_02	Macrologistics instrumentation: Integrated national freight flow and logistics cost measurement J. Havenga ¹ , Z Simpson* ¹ , I. Witthöft ² , ¹ Stellenbosch University, South Africa, ² Independent researcher, South Africa
	B5_OS4_03	District level freight production of agricultural commodities in India S Dhulipala*, G. Patil, Indian Institute of Technology Bombay, India
	B5_OS4_04	Modelling interactions between freight forwarders and recipients – An extension of the MATsim toolkit T. Matteis ¹ , W. Wisetjindawat ² , G Liedtke* ¹ , ¹ Institute of Transport Research, Germany, ² University of Bristol, United Kingdom
	B5_OS4_05	Developing a disaggregated national freight flow model for India B Aritua*1, J. Havenga², Z Simpson*², I. Witthöft³, ¹The World Bank Group, USA, ²Stellenbosch University, South Africa, ³Independent Researcher, South Africa
		B5 – OS5: Data Driven Approaches Room: VMCC 11 Session Chair: Hanno Friedrich
14:30-16:10	B5_OS5_01	Modeling and prediction of freight delivery for blocked and unblocked conditions using machine learning techniques P. Pandya, R Gujar*, V. Vakharia, PDPU Gandhinagar, India
	B5_OS5_02	Designing zoning systems for freight transportation planning: A GIS-based approach for automated zone design using public data sources A Chandra*, A Pani*, P Sahu*, Birla Institute of Technology and Science Pilani, India





	Truck identification on freeways using Bluetooth data analysis A Nadi*1, M. Snelder¹,², L. Tavasszy¹, S. Sharma¹, H. Van Lint¹, ¹Delft University of Technology, Netherlands, ²TNO, Netherlands Combining macro- and microscopic approaches to model commercial transport demand in an urban area		
	A. Reiffer, M. Heilig, E. Szimba, J. Klenner, M Kagerbauer*, P. Vortisch, Karlsruhe Institute of Technology, Germany		
B5 – OS6: Freight Transport Demand Management			
	Room: VMCC 11		
	Session Chair: Eduardo Marcucci		
B5_OS6_01	Impact of decisions in freight transport demand management on rice logistics in the Mekong		
	delta of Vietnam		
	B Nguyen Thi*, Foreign Trade University, Vietnam		
B5_OS6_02	A comprehensive sector analysis for detailed impact assessment of freight transport		
	management measures B Nguyen Thi*, Foreign Trade University, Vietnam		
PE 056 03			
B5_U36_U3	Assessing the economic and environmental impacts of a public transport-based crowdshipping system		
	E Marcucci* ^{1,2} , V Gatta* ² , M. Nigro ² , S. Patella ² , ¹ Molde University College, Norway, ² Roma Tre University, Italy		
	B5_OS5_04 B5_OS6_01 B5_OS6_02		

	TOPIC C: TRAFFIC MANAGEMENT, OPERATIONS, AND SAFETY			
	C1: Traffic Theory and Modelling			
	Monday, 27 May 2019			
	C1 – OS1: Intersection Management and Modelling Room: LC001 Session Chair: M. Singh			
14:30-16:10	C1_OS1_01	Modelling of seepage behaviour using available gaps at signalized intersection M Singh*, K. Rao, Indian Institute of Technology Delhi, India		
	C1_OS1_02	Calibration of HCM equation to estimate the saturation flow at signalized junction under mixed traffic P. Patel*, A. Dhamaniya, Sardar Vallabhbhai National Institute of Technology, India		
	C1_OS1_03	Analysis and estimation of saturation flow at signalized intersections in mixed traffic conditions R Sushmitha*, K. Ravi Shankar, National Institute of Technology Warangal, India		
	C1_OS1_04	Effect of two-wheeler proportion on passenger car units at four legged roundabouts A. Khan ¹ , T. Ann Joseph ² , S Arkatkar* ² , A. Dhamania ² , ¹ Universal College of Engineering, India, ² Sardar Vallabhbhai National Institute of Technology, India		





		Tuesday, 28 May 2019
		C1 – OS2: Big Data Informed Traffic Models
		Room: LC001
		Session Chair: George Yannis
11:30-13:10	C1_OS2_01	Investigation of driver route choice behaviour using bluetooth data
		S Kottayil*, P Tsoleridis*, K Rossa*, R Connors*, C Fox*, The Institute for Transport Studies,
		University of Leeds, United Kingdom
	C1_OS2_02	Driving speed model development using driving data obtained from smartphone sensors
		D. Tselentis, C. Gonidi, G Yannis*, National Technical University of Athens, Greece
	C1_OS2_03	Toward reliable estimations of urban traffic flows from machine learning and floating car
		data
		J Li*, J. Boonaert, A. Doniec, G. Lozenguez, IMT Lille Douai, France
	C1_OS2_04	Field data application of a non-lane based multi-class traffic flow model
		R Moahn*1, G. Ramadurai ² , ¹ Indian Institute of Science, India, ² Indian Institute of Technology,
		India
	C1_OS2_05	Insight into driver behavior during overtaking maneuvers in disorderly traffic: An
		instrumented vehicle study
		B Dutta*1, V Vasudevan*2, ¹ Indian Institute of Technology Kanpur, India, ² University of Alaska
		Anchorage, USA
		Wednesday, 29 May 2019
		C1 – OS3: Highway Management
		Room: LC001
		Session Chair: V Valencia Alaix
09:30-11:10	C1_OS3_01	Perceived travel time attribute analysis and estimation modelling of a metropolitan traffic
		corridor: A case study of Surat, India
		K Saw*, B. Katti, G. Joshi, Sardar Vallabhbhai National Institute of Technology, India
	C1_OS3_02	Simulation of hetrogeneous traffic flow on a co-ordinated corridor
		M. John Finny, K. Prathibaa*, K. Gunasekaran, College of Engineering Guindy, India
	C1_OS3_03	Operational evaluation of climbing lanes on steep grades and heavy trucks
		V Valencia Alaix*1, A. García García ² , ¹ Universidad Nacional de Colombia (Medellín), Colombia,
		² Universitat Politècnica de València, Spain
		C1 – OS4: Multimodal Traffic Models
		Room: LC001
		Session Chair: Boris Davydov
16:30-18:10	C1_OS4_01	Arrial delay forming in the dence train flow
		B Davydov*1, V. Chebotarev², K. Kablukova², ¹Far Eastern State Transport University, Russian
		Federation, ² Far Eastern Branch of RAS, Russian Federation
	C1_OS4_02	Calibration of car-following model for Indian traffic conditions
		M Errampalli*1, S. Mallela ² , S. Chandra ¹ , ¹ CSIR-Central Road Research Institute, India,
		² Jawaharlal Nehru Technological University (JNTU), India
	C1_OS4_03	Integrated multimodal transit route network design with feeder systems
		A. Sachan, T Mathew*, <i>Indian Institute of Technology Bombay, India</i>
	C1 OS4 04	Practical guidance for using mesoscopic simulation tools
		B. Sun ¹ , J. Appiah ² , B Park* ¹ , ¹ University of Virginia, USA, ² Virginia Transportation Research
		Council, USA
	1	





C1_OS4_05	Comparative study of pedestrian crossing behaviour at uncontrolled intersection and
	midblock locations
	L Govinda*, D. Abhigna, P. Nair, K. Ravi Shankar, National Institute of Technology, Warangal,
	India

	C2: Urban Transport Operations		
		Monday, 27 May 2019	
	C	2 – OS1: Arterial Coordination Control and Corridor Management	
		Room: LC001	
		Session Chair: Zong Tian	
16:30-18:10	C2_OS1_01	A model analysis of the saturation flow rate influenced by downstream conditions Z Hong*, N. Hideki, Nagoya University, Japan	
	C2_OS1_02	Design of robust signal timings for two-dimensional traffic variations on arterial roads C Shirke* ¹ , N. Sabar ² , E. Chung ³ , A. Bhaskar ¹ , ¹ Queensland University of Technology, Australia, ² La Trobe University, Australia, ³ Hong Kong Polytechnic University, Hong Kong	
	C2_OS1_03	Analysis of travel speed on 4-lane signalized arterials E Akandwanaho*, H. Nakamura, Nagoya University, Japan	
	C2_OS1_04	Corridor level mobility analysis using GPS data S Banik* ¹ , D. Bullock ² , L. Vanajakshi ¹ , ¹ Indian Institute of Technology Madras, India, ² Purdue University, USA	
		Wednesday, 29 May 2019	
C2	– OS2: Traffi	c Operations and Quality of Service at Signalized Intersection and Roundabout	
		Room: LC001	
		Session Chair: Keshuang Tang	
11:30-13:10	C2_OS2_01	Comparison of artificial intelligence based roundabout entry capacity models A Patnaik*, R. Patra, P Bhuyan*, NIT Rourkela, India	
	C2_OS2_02	Design of passive transit signal priority control for bus rapid transit based on a simulation-based optimization model Y Ni*1, H. Lo², H. Huang³, Y. Hsu¹, T. Chang⁴, ¹National Taiwan University, Taiwan, ²National Cheng Kung University, Taiwan, ³Traffic Engineering Technician Affair, Taiwan, ⁴Fujian University of Technology, China	
	C2_OS2_03	Weighted center of mass based optimal control scheme for pre-timed signalized junctions A Patel*, J. Venkateswaran, T. Mathew, IIT Bombay, India	
	C2_OS2_04	Modelling service quality offered by signalized intersections from automobile users' perspective M Kar ¹ , S. Jena ¹ , A. Chakraborty* ² , P Bhuyan* ¹ , ¹ NIT Rourkela, India, ² IIT Kharagpur, India	
	C2 -	OS3: Public Transport, Shared Mobility and Emergency Evacuation	
		Room: LC001	
		Session Chair: Nirajan Shiwakoti	
14:30-16:10	C2_OS3_01	Study on the feasibility of downward evacuation in metro station when the station hall catch fire H Yu*1, Y. Wang¹, P. Qiu², J. Chen², ¹South China University of Technology, China, ²Guangzhou Metro Group Co. Ltd, China	
	C2_OS3_02	In an emergency evacuation situation what would you do? N Shiwakoti*, R. Tay, P. Stasinopoulos, RMIT University, Australia	
	C2_OS3_03	A review of service reliability measures for public transportation systems A Kathuria* ¹ , M. Parida ² , C. Sekhar ³ , ¹ VNIT Nagpur, India, ² IIT Roorkee, India, ³ CRRI-CSIR, India	





C2_OS3_04	A Protocol for simulation modeling of ridesourcing services in Perth metropolitan area: optimisation of fleet size in an urban environment J Chakraborty* ¹ , D. Pandit ¹ , J. Xia ² , F. Chan ² , ¹ Indian Institute of Technology, Kharagpur, India, ² Curtin University, Australia
C2_OS3_05	Performances and influential factors of bike sharing: Case study of Adelaide, South Australia A. Soltani* ^{1,2} , H. Anh Nguyen* ³ , A. Allan* ¹ ¹ University of South Australia, Australia. ² Shiraz University, Iran, Islamic Republic of. ³ University of Transport and Communications., Vietnam

	C3: Intelligent Transport Systems		
	Monday, 27 May 2019		
		C3 – OS1: Data & Analytics-1 Room: LC002 Session Chair: Lelitha Vanajakshi	
14:30-16:10	C3_OS1_01	Estimating OD matrices from observed trajectories and link counts K Behara* ¹ , A. Bhaskar ¹ , E. Chung ² , ¹ Queensland University of Technology, Australia, ² The Hong Kong Polytechnic University, Hong Kong	
	C3_OS1_02	Hybrid data envelopment analysis for large-scale smartphone data modeling D. Tselentis, E. Vlahogianni, G Yannis*, L. Kavouras, National Technical University of Athens, Greece	
	C3_OS1_03	Calibrating traffic microscopic simulation model parameters using an evolutionary approach S Leal*1,2, P Almeida*1, R. Ribeiro ¹ , ¹ Federal Center of Technological Education of Minas Gerais – CefetMG, Brazil, ² University Center of Belo Horizonte - UNIBH, Brazil	
	C3_OS1_04	Application of clustering algorithms for Spatio-Temporal analysis of urban traffic data D. Toshniwal, N Chaturvedi*, M. Parida, A. Garg, C. Choudhary, Y. Choudhary, <i>Indian Institute of Technology Roorkee, India</i>	
	C3_OS1_05	Performance evaluation of urban arterial network using Wi-Fi sensors under heterogeneous traffic conditions C Advani*1, S. Thakkar1, S. Arkatkar1, A. Bhaskar2, 1SVNIT Surat, India, 2QUT, Australia	
		C3 – OS2: Data & Analytics-2 Room: LC002 Session Chair: Shriniwas Arkatkar	
16:30-18:10	C3_OS2_01	Systematic traffic peak period identification using Wavelet Transformation and Bottom-up Segmentation P. Connors ¹ , S Respati* ¹ , A. Sharma ² , A. Bhaskar ¹ , ¹ Queensland University of Technology (QUT), Australia, ² The University of Queensland, Australia	
	C3_OS2_02	Examining the feasibility of using naturalistic driving study data for validating speed prediction models S Geedipally* ¹ , M. Pratt ¹ , B. Dadashova ¹ , L. Wu ¹ , M. Shirazi ² , ¹ Texas A&M Transportation Institute, USA, ² Texas A&M University, USA	
	C3_OS2_03	Modeling the impact of sensor failure on full link flow observability in the traffic network M Salari*1, L. Kattan1, W. H.K. Lam2, M. Ansari Esfeh1, 1 University of Calgary, Canada, 2 The Hong Kong Polytechnic University, Hong Kong	
	C3_OS2_04	Predicting traffic phases from car sensor data E. Heyns, S Uniyal*, F. Tillema, C. Huijboom, HAN University of Applied Sciences, Netherlands	





		Tuesday, 28 May 2019
		C3 – OS3: ITS technologies and Applications
		Room: LC002
		Session Chair: Edward Chung
11:30-13:10	C3_OS3_01	Integration of head & eye-tracking for driver monitoring in vehicular environment A Sai Charan* ¹ , R Assfalg* ² , H Venkataraman* ¹ , ¹ Indian Institute of Information Technology Sri City, India, ² DHBW Heidenheim, Germany
	C3_OS3_02	Analysis and use of Wi-Fi data for signal state identification S Sharma* ¹ , H Maripini* ² , A Khadhir* ² , S Arkatkar* ¹ , L. Vanajakshi ² , ¹ Sardar Vallabhbhai National Institute of Technology, India, ² Indian Institute of Technology Madras, India
	C3_OS3_03	A mobile GIS framework for improving the security of school vehicles A Chakraborty*, A. Dasgupta, P. Prasad, S. Ghosh, B. Maitra, Indian Institute of technology Kharagpur, India
	C3_OS3_04	Early empirical evidence for the effects of adaptive ramp metering on measures of travel time reliability
		T. Low ¹ , A Pande ^{*1} , R. Bertini ² , ¹ Cal Poly SLO, USA, ² University of South Florida, USA
		C3 – OS4: Machine Learning
		Room: LC002
	I	Session Chair: Anurag Pande
16:30-18:10	C3_OS4_01	Predicting traffic volume and occupancy at failed detectors I Tarunesh* ¹ , E. Chung ² , ¹ Indian Institute of Technology, Bombay, India, ² The Hong Kong Polytechnic University, Hong Kong
	C3_OS4_02	Controlling signalized intersections using machine learning A. Eriksen*, H. Lahrmann, K. Larsen, J. Taankvist, Aalborg University, Denmark
	C3_OS4_03	Impact of ITS on urban transport operations and management S Jain*1, S. S*1, V. Gaurav², ¹Indian Institute of Technology Roorkee, India, ²Space Application Centre (SAC), India
	C3_OS4_04	A random forest incident detection algorithm that incorporates contexts J Evans*1, B. Waterson1, A. Hamilton2, 1 University of Southampton, United Kingdom, 2 Siemens Mobility Limited, United Kingdom
		Wednesday, 29 May 2019
		C3 – OS5: Traveler Information
		Room: LC002
		Session Chair: Ashish Bhaskar
14:30-16:10	C3_OS5_01	Short-Term travel speed prediction for urban expressways using convolutional neural network and tensor decomposition T Han*1, K. Tang², T. Oguchi¹, ¹University of Tokyo, Japan, ²Tongji University, China
	C3_OS5_02	Designing an integrated smart parking application T Fabusuyi*1,2, V. Hill², ¹University of Michigan, USA, ²Numeritics, USA
	C3_OS5_03	Influence of design elements in Graphical Route Information Panels on drivers' comprehension and response time N. Reinolsmann ¹ , W Alhajyaseen* ² , T. Brijs ¹ , V. Ross ¹ , Q. Hussain ² , C. Timmermans ² , K. Brijs ¹ , ¹ Hasselt University, Belgium, ² Qatar University, Qatar
	C3_OS5_04	Analysis and prediction of bus travel time under high variability condition B. Dhivyabharathi, *, L. Vanajakshi, <i>Indian Institute of Technology Madras, India</i>





		C4: Traffic Safety Analysis and Policy
		Monday, 27 May 2019
		C4 – OS1: Pedestrian Safety
		Room: LC101
		Session Chair: Babak Mirbaha
14:30-16:10	C4_OS1_01	Spatial assessment of pedestrian safety and accessibility around bus stops in Delhi S. Lakhotia ¹ , S. Lassarre ² , K. Rao ¹ , G Tiwari* ¹ , ¹ Indian Institute of Technology Delhi, India, ² IFSTTAR, France
	C4_OS1_02	Modeling the risk perception of pedestrians using a nested logit structure B Mirbaha*, A. Asgari Toorzani, Imam Khomeini International University, Iran, Islamic Republic of
	C4_OS1_03	Mapping pedestrian-vehicle behavior at urban undesignated mid-block crossings under mixed traffic environment – A trajectory-based approach H. Golakiya, R. Chauhan, A Dhamaniya*, Sardar Vallabhbhai National Institute of Technology, India
	C4_OS1_04	Identification of risk factors leading to pedestrian fatalities: An experience in Kolkata city D Mukherjee*, S. Mitra, Indian Institute of Technology Kharagpur, India
		C4 – OS2: Traffic Control & Safety Implications
		Room: LC102
		Session Chair: Anurag Pande
14:30-16:10	C4_OS2_01	Analyzing Driver's Response to Yellow Indication Subjected to Dilemma Incursion: An Econometric Approach R Majhi*, V. Senathipathi, Central Road Research Institute, India
	C4_OS2_02	Network analysis for assessment of traffic safety and operation in rural travel time information system S Cafiso*1, C D Agostino*2, M. Kiec3, S. Pogodzinska3, 1University of Catania, Italy, 2Lund University, Sweden, 3Cracow University of Technology, Poland
	C4_OS2_03	Comparing safety performance of roundabout and signalized intersection in heterogeneous traffic B. K. Swain ¹ , N. Nezamuddin* ¹ , A Pande ² , ¹ Indian Institute of Technology Delhi, India, ² Cal Poly State University, USA
	C4_OS2_04	Driver behaviour at the yellow onset: A Comparative study of distraction caused by phone conversation and a music player P Choudhary*, N. Velaga, IIT Bombay, India
	C4_OS2_05	Going to the nearest hospital vs. designated trauma centre for road traffic crashes- estimating the time difference in Delhi, India R Ahuja*1, G. Tiwari¹, K. Bhalla², ¹Indian Institute of Technology, India, ²The University of Chicago, USA
		C4 – OS3: Vulnerable Road Users Safety
		Room: LC101
		Session Chair: Ramchandra Rao
16:30-18:10	C4_OS3_01	Interaction between motor vehicles and bicycles at two-lane roundabouts: A driving volatility based analysis
	04 005 55	B. Bahmankhah, P. Fernandes, J. Teixeira, M Coelho*, <i>Universidade de Aveiro, Portugal</i>
	C4_OS3_02	Development of bicycle safety index models for safety of bicycle flow at 3-legged junctions on urban roads under mixed traffic conditions A Badveeti*, M Mir*, National Institute of Technology (NIT), Srinagar, India





	C4_OS3_03	A proactive approach to assess safety level of urban bus stops M. Cheranchery, K Bhattacharyya*, M. Salih, B. Maitra, <i>Indian Institute of Technology</i> Kharagayus India
	C4_OS3_04	Rharagpur, India Pedestrian safety at crosswalks and bus-stops: A global perspective D Mukherjee*, K. Rao, G. Tiwari, Indian Institute of Technology Delhi, India
	<u> </u>	Tuesday, 28 May 2019
		C4 – OS4: Crash Data Analysis (1)
		Room: LC101
		Session Chair: Marianne Vanderschuren
16:30-18:10	C4_OS4_01	Identifying high crash risk highway segments using jerk-cluster analysis S. Mousavi ^{1,2} , Z. Zhang ³ , S. Parr ⁴ , A Pande* ⁵ , B. Wolshon ⁶ , ¹ Texas A&M University, USA, ² Texas A&M Transportation Institute, USA, ³ Beihang University, China, ⁴ Embry Riddle Aeronautical University, USA, ⁵ Cal Poly State University, USA, ⁶ Louisiana State University, USA
	C4_OS4_02	How accurate are locations in Malaysian accident data? Development of a rectification
		procedure based on nested filtered search technique A. Ahmed ^{1,2} , A. Sadullah ² , A. Yahya ² , N Akhtar ² , Q. Azam* ² ¹ aNED University of Engineering and Technology, Pakistan, ² Universiti Sains Malaysia, Malaysia
	C4_OS4_03	Combatting the road safety burden in the developing world: The case of south Africa M Vanderschuren* ¹ , M. Arendse ² , T. Lane-Visser ¹ , A. Janmohammed ¹ , ¹ University of Cape Town, South Africa, ² Western Cape Government, South Africa
	C4_OS4_04	Development of pedestrian crash prediction model for a developing country using Artificial Neural Network
		A. Chakraborty*, D. Mukherjee, S Mitra, <i>Indian Institute of Technology Kharagpur, India</i>
		C4 – OS5: Crash Prediction Methodologies (1)
		Room: LC102
16:20 10:10	64 065 04	Session Chair: Mohamed Shawky
16:30-18:10	C4_035_01	Multilevel hierarchical Bayesian for traffic accident prediction S Susilawati*, M. The, Monash University Malaysia, Malaysia
	C4_OS5_02	Safety performance functions for fatal crashes on national highways in India
		H. Naqvi*1, G Tiwari², ¹National Highways Authority of India, India, ²Indian Institute of Technology Delhi, India
	C4_OS5_03	A novel measure of speed variation for crash frequency prediction
		R Jose*, S. Mitra, Indian Institute of Technology Kharagpur, India
	C4_OS5_04	Calibrating predictive models in the highway safety manual for freeway segments using Kansas data
		I. Matarage, S Dissanayake*, Kansas State University, USA
	C4_OS5_05	Future accident prediction of individual driver M Shawky*1, A. El-Zaidi2, 1Ain Shams University, Egypt, 2Abu Dhabi Traffic Police, UAE
		Wednesday, 29 May 2019
		C4 – OS6: Crash Data Analysis (2)
		Room: LC101
		Session Chair: Geetam Tiwari
09:30-11:10	C4_OS6_01	Modeling fatal traffic crash occurrence in small Indian cities K. Dhanoa ¹ , G Tiwari* ² , M. Malayath ² , ¹ Public Works Department, India, ² Indian Institute of Technology, India
	C4_OS6_02	An evaluation of wrong-way crashes from highway ramps in Kansas, USA E Fitzsimmons*, J. Cunningham, S. Dissanayake, J. Liang, Kansas State University, USA
	C4_OS6_02	Technology, India An evaluation of wrong-way crashes from highway ramps in Kansas, USA





	C4_OS6_03	Data recording patterns and missing data in road crashes: Case study of five Indian cities A Jha*1, G. Tiwari¹, N. Chatterjee², ¹TRIPP, IIT Delhi, India, ²IIT Delhi, India
	C4_OS6_04	Analysis of risk factors associated with severe injury in child pedestrian-vehicle collision in Ghana G Markin Yankah*, E. Aidoo, Kwame Nkrumah University of Science and Technology, Ghana
	C4_OS6_05	Comparative analyses of vehicle safety ratings and real-world side impact crash outcomes P Penmetsa*1, A Lidbe*1, T. Wang², S Nambisan*1, ¹University of Alabama, USA, ²Texas A&M Transportation Institute, USA
		C4 – OS7: Surrogate Traffic Safety Measures (2)
		Room: LC102
		Session Chair: Riccardo Rossi
11:30-13:10	C4_OS7_01	Effects of pre-detection and post-detection phases of a sudden event on accident risk P Choudhary*, N. Velaga, <i>Indian Institute of Technology, Bombay, India</i>
	C4_OS7_02	A simulation study on optimizing the pattern of speed reduction markings affecting speed choice before curve entry H Yotsutsuji*1, T Otazawa*2, H. Kita², ¹CERI, PWRI, Japan, ²Kobe University, Japan
	C4_OS7_03	
	C4_OS7_04	Conflict severity estimation of uncontrolled intersections using surrogate safety measures P Akinapalli*, D. Pawar, Indian Institute of Technology Hyderabad, India
		C4 – OS8: Human Factors & Traffic Safety (1)
		Room: LC101
		Session Chair: Wael Alhajyaseen
14:30-16:10	C4_OS8_01	Perceiving driving speed in real world: A study on an expressway and a local road Q. Hussain ¹ , W Alhajyaseen* ¹ , K. Brijs ² , A. Pirdavani ² , N. Reinolsmann ² , T. Brijs ² , ¹ Qatar University, Qatar, ² Hasselt University, Belgium
	C4_OS8_02	Study of right-turning driver's dilemma at un-signalized T-Intersections under mixed traffic conditions N. Pawar, N. Gore, S Arkatkar*, SVNIT, India
	C4_OS8_04	
		C4 – OS9: Human Factors & Traffic Safety (2)
		Room: LC101
		Session Chair: Nagendra R Velaga
16:30-18:10	C4_OS9_01	Effect of driver work-rest patterns, lifestyle and payment incentives on long-haul truck drive sleepiness K. Mahajan¹, N. Velaga¹, A. Kumar², A. Choudhary³, P Choudhary*¹, ¹Indian Institute of Technology, Bombay, India, ²Indian Institute of Technology (IIT) Kharagpur, India, ³Loughborough University, Leicestershire, United Kingdom
	C4_OS9_03	A study of the psychological factors that influence the dangerous driving behaviour of driver M. Najeeb*, Kerala Motor Vehicles Department, India
	C4_OS9_04	Rle of prospective memory in driving behaviour N Sharma*, A. Khan, Indian Institute of Technology Bombay, India
	C4_OS9_05	A study of the psychological factors that influence the dangerous driving behaviour of driver M Najeeb*, Ministry of Transport, India





		C4 – OS10: Traffic Safety Policy
		Room: LC102
		Session Chair: Velumurugan Senathipathi
16:30-18:10	. – –	Policy implications from traffic accident analysis with a case study from Vietnam A Minh Ngoc*1, T. Thi My Thanh ² , ¹ University of Transport and Communications, Vietnam, ² University of Transport Technology, Vietnam
		Towards the development of traffic safety strategies in developing countries: analysis of road users' perspective A Minh Ngoc*1, T. Thi My Thanh ² , ¹ University of Transport and Communications, Vietnam, ² bUniversity of Transport Technology, Vietnam
		Review of policies and incident duration associated with disabled and abandoned vehicles D Chimba*, Tennessee State University, USA
		Development of low-volume rural road safety manual for Bangladesh S Rabbi* ¹ , K. Newaz ¹ , A. Huq ¹ , M. Hoque ² , ¹ Accident Research Institute, Bangladesh, ² Bangladesh University of Engineering and Technology, Bangladesh
		Thursday, 30 May 2019
		C4 – OS11: Human Factors & Traffic Safety (3)
		Room: LC101
		Session Chair: George Yannis
09:30-11:10		Role conflict and trust repair of flight attendant N Okabe*, Yokohama National University, Japan
1	. – –	Investigating the correlation between driver's characteristics and safety performance D. Tselentis, K. Folla, V. Agathangelou, G Yannis*, National Technical University of Athens, Greece
		Modelling the effect of alcohol consumption on reaction time of young and mature drivers A Yadav*, N. Velaga, Indian Institute of Technology (IIT) Bombay, India
	C4_OS11_04	Bivariate probit analysis of the relationship between driver and passenger's seatbelt use E Aidoo*1, R. Amoh-Gyimah², W. Ackaah², ¹Kwame Nkrumah University of Science and Technology, Ghana, ²CSIR-Building and Road Research Institute, Ghana
		Challenges with human factors in road traffic safety, and the need for reasonable degrees of automation A Mofolasayo*, Not Applicable, Canada
		C4 – OS12: Road Design & Traffic Safety Room: LC102 Session Chair: Akhilesh Maurya
09:30-11:10	. – –	Complete street concept, and ensuring safety of vulnerable road users A. Mofolasayo*, University of Alberta, Canada
	C4_OS12_02	Analysis of speed profiles at speed hump under various dimensions & simulating their LOS using VISSIM K Ravi Kiran*, K. Molugaram, M. Sandeep, Osmania University, India
		Critical analysis of speed hump, speed bump and geometric design of curved speed hump K Ravi Kiran* ¹ , K. Molugaram ¹ , B. Abhinay ² , ¹ Osmania University, India, ² Telangana State Engineering Research Labs, India
	. – –	Probabilistic geometric design of highways: A review K Kalita*, A. Maurya, Indian Institute of Technology Guwahati, India





	7	TOPIC D: DATA COLLECTION AND PROCESSING METHODS
		D1: Data Collection and Processing Methods
		Monday, 27 May 2019
		D1 – OS1: Public Transport Data
		Room: VMCC31
		Session Chair: Catherine Morency
14:30-16:10	D1_OS1_01	Assessing longitudinal stability of public transport users with smart card data M. Moradi ^{1,2} , M Trepanier* ^{1,2} , ¹ Polytechnique Montreal, Canada, ² Interuniversitary Research Centre on Entreprise Networks, Logistics and Transportation (CIRRELT), Canada
	D1_OS1_02	Bus passenger volume and origin-destination based on field surveys using a wi-fi scanner A Hidayat*1,2, S. Terabe¹, H. Yaginuma¹, ¹Tokyo University of Science, Japan, ²Universitas Teknologi Sulawesi, Indonesia
	D1_OS1_04	Validating the Origin–Destination estimation algorithm for bus systems using smart card data M Mosallanejad* ¹ , S. Somenahalli ¹ , A. Vij ¹ , D. Mills ² , ¹ University of South Australia, Australia, ² Department of Planning Transportation and Infrastructure, Australia
	•	Wednesday, 29 May 2019
		D1 – OS2: Mobile Phone/GPS Data
		Room: VMCC31
		Session Chair: Martin Trepanier
09:30-11:10	D1_OS2_01	Optimizing mobile device GPS data collection to capture long distance travel B Kaufman*¹, G. Galford², M. Burke¹, ¹Griffith University, Australia, ²University of Vermont, USA
	D1_OS2_02	Examining difference between paper- and web-based self-reported departure/arrival time using smartphone-based survey Y Sato*, T. Maruyama, Kumamoto University, Japan
	D1_OS2_03	Updating of a travel demand model based on fuel consumption data A Hakimelahi* ^{1,2} , K Rao* ² , S Dhingra* ² , F Peiravian* ¹ , ¹ Shiraz University, Iran, Islamic Republic of, ² Indian Institute of Technology Bombay, India
	D1_OS2_04	Cell phone signaling data and its implication for urban planning in Hangzhou, China C Shi*, H. Pan, X. Niu, Tongji University, China
		D1 – OS3: Mobile Phone/GPS Data
		Room: VMCC31
		Session Chair: Martin Trepanier
14:30-16:10	D1_OS3_01	Emerging data for pedestrian and bicycle monitoring: Sources and applications K Lee*, I Sener*, Texas A&M Transportation Institute, USA
	D1_OS3_02	Classifying logistic vehicles in cities using Deep learning S Benslimane*, S. Tamayo, A. De La Fortelle, Mines ParisTech, France
	D1_OS3_03	E-mission: A platform for reproducible and extensible human travel data collection S. Kalyanaraman ¹ , P. Yedavalli ¹ , T. Rashidi ² , I Banerjee* ³ , ¹ University of California, USA, ² University of New South Wales, Australia, ³ Indian Institute of Science, India
	D1_OS3_04	Households with every member out-of-home (HEMO): Comparison using the Kumamoto Person Trip surveys in 1984, 1997, and 2012 T Fukahori*, Y. Sato, T. Maruyama, <i>Kumamoto University, Japan</i>





		D2: Travel Behaviour and Choice Modeling
		Monday, 27 May 2019
	D2 – OS1: N	New and Advanced Travel Demand Data Collection and Analysis Methods I
		Room: VMCC32
		Session Chair: Muhammad Ahsanul Habib
14:30-16:10	D2_OS1_01	Understanding travel behavior from call detail records
		N Jeewanthi*, A. Kumarage, <i>University of Moratuwa, Sri Lanka</i>
	D2_OS1_02	Understanding variations in activity-based vehicle allocation decisions for solo and joint
		tours: A latent segmentation-based random parameter logit modeling approach
	D2 004 02	N Khan*, M. Habib, <i>Dalhousie University, Canada</i>
	D2_OS1_03	Development of a hierarchical integrated choice and latent variable model for understanding travelers' acceptance of variable message signs
		E. Diop, S. Zhao, T Duy*, <i>Dalian University of Technology, China</i>
	D2_OS1_05	
	22_031_03	time variability in truck route choice
		M Biswas* ¹ , A. Pinjari ¹ , S. Dubey ² , ¹ Indian Institute of Science, India, ² Tiger Analytics, India
	D2 – OS2: N	lew and Advanced Travel Demand Data Collection and Analysis Methods II
		Room: VMCC32
		Session Chair: Abdul Pinjari
16:30-18:10	D2_OS2_02	The evaluation of bicycle transport policy by modal choice model with fuzzy logic
		Y Yasuda*, A. Takamasa, Graduate school of Kansai University, Japan
	D2_OS2_03	A comparative study of trip purpose inference using data mining techniques
		D Hong*, D. Ka, Y. Jung, C. Lee, Seoul National University, Korea, Republic of
		WITHDRAWN
	D2_OS2_05	A Rank Ordered Logit Multivariate Count Data (ROLMCD) framework for analysing route
		choice portfolios S Saxena*1, A. Pinjari1, R. Paleti2, D. Tahlyan3, 1Indian Institute of Science, India, 2Pennsylvania
		State University, USA, ³ Northwestern University, USA
		Wednesday, 29 May 2019
D2 -	- OS3: Socio-	Psychological, Demographic, and Built Environment Impacts on Travel Behavior
		Room: VMCC32
00 00 44 40	20.000.01	Session Chair: Geetam Tiwari
09:30-11:10	D2_OS3_01	Socio-psychological, Instrumental and Demographic determinants of travel behavior S Gandhi*, G. Tiwari, Indian Institute of Technology Delhi, India
	D2 OS2 02	Travel behavior of the urban poor: A comparative study between Maputo and Nairobi
	D2_U33_U2	A. Tembe, F. Nakamura, S Tanaka*, R. Arioshi, S. Miura, <i>Yokohama National University, Japan</i>
	D2_OS3_03	The impact of the built environment on travel behavior: The Swiss experience based on two
		national travel surveys
		T. Thi Vu, T Ohnmacht*, University of Applied Science and Arts - Business, Switzerland
	D2_OS3_04	Effect of travel attitude and travel activities on residential self-selection: A case study of
		Agartala City
		A. Acharjee*, P. Sarkar, <i>NIT Agartala, India</i>





	D2_OS3_05	Analyzing potential age cohort effects in car ownership and residential location in the metropolitan region of Amsterdam J Van Kampen*1,2, E. Pauwels1, R. van der Mei1,2, E. Dugundji1,2, 1Centrum Wiskunde & Informatica, Netherlands, 2Vrije Universiteit Amsterdam, Netherlands
		D2 – OS4: On Carsharing, Ridesharing, and Vehicle Automation Room: VMCC32
		Session Chair: Ishant Sharma
11:30-13:10	D2_OS4_01	Characterising annual behaviour of carsharing users in Montreal H. Baradaran Kashani ^{1,2} , M Trepanier* ^{1,2} , ¹ Polytechnique Montreal, Canada, ² Interuniversitary Research Centre on Entreprise Networks, Logistics and Transportation (CIRRELT), Canada
	D2_OS4_02	Predicting car sharing station-based trip generation using a growth model M. Ménoire ¹ , G. Wielinski ^{1,2} , C Morency* ^{1,2} , M. Trépanier ^{1,2} , ¹ Polytechnique Montreal, Canada, ² CIRRELT (Interuniversitary Research Centre on Entreprise Networks, Logistics and Transportation), Canada
	D2_OS4_03	Modelling of car sharing: A stated choice experiment A Papu Carrone*, V. Hoening, A. Fjendbo Jensen, S. Eriksen Mabit, J. Rich, <i>Technical University of Denmark, Denmark</i>
	D2_OS4_04	User preferences regarding ridesourcing and informal Intermediate Public Transport A. Danesh ^{1,2} , N. R. Velaga ² , D Das* ² , ¹ Tongji University, China, ² IIT Bombay, India
	D2_OS4_05	A quantum cognition model for bridging stated and revealed preference J. Yu ^{1,2} , R Jayakrishnan* ¹ , ¹ University of California, USA, ² Cabmridge Systematics, USA
		D2 – OS5: Well, It's All About Time and Travel Mode!
		Room: VMCC32
		Session Chair: M.V.L.R. Anjaneyulu
16:30-18:10	D2_OS5_01	Factors affecting the departure train station choice of cyclists in the western region of the Netherlands M Jayaraj*1, J. van Kampen², T. Koch², E. Pauwels², R. van der Mei², E R Dugundjia*1, ¹VU, Netherlands, ²CWI, Netherlands
	D2_OS5_02	Value of time spent commuting Z Adam* ¹ , L. Walasek ¹ , C. Meyer ^{1,2} , ¹ University of Warwick, United Kingdom, ² University Hospitals Coventry and Warwickshire NHS Trust, United Kingdom
	D2_OS5_03	Time-of-day choice behaviour of commuters in Kochi City, India K M G*1, S. George T.1, V. Anjaneyulu ² , ¹ Mar Athanasius College of Engineering, India, ² National Institute of Technology, India
	D2_OS5_04	A tour-based mode choice models for commuters in Indonesia F. Bastarianto* ^{1,2} , I. Muhammad Zudhy ¹ , C. Choudhury ² , D. Palma ² , M. Imam ¹ , ¹ Universitas Gadjah Mada, Indonesia, ² University of Leeds, United Kingdom
	D2_OS5_05	Multi-modal transportation choice modelling of metropolitan region of Amsterdam V Janardhan* ^{1,2} , E R Dugundji* ^{1,2} , ¹ Vrije Universiteit, Netherlands, ² Centrum Wiskunde & Informatica, Netherlands





D3: Ap	plications	of Travel Behaviour Analysis and Demand Modeling Approaches
		Monday, 27 May 2019
		D3 – OS1: Demand Estimation and Modelling
		Room: VMCC33
		Session Chair: Thierry Blayac
14:30-16:10	D3_OS1_01	A life Expectancy-Period-Cohort model to project private car fleet and traffic applied to
		France J Madre* ¹ , Y Bussière* ² , R Grimal* ³ , ¹ IFSTTAR, France, ² BUAP, Mexico, ³ CEREMA, France
	D3_OS1_02	Passengers' OD flow estimation model for the flat fare bus system H Shimamoto*, I. Hirai, <i>University of Miyazaki, Japan</i>
	D3_OS1_03	Is there a limit to traffic growth? Potential demand and convergence paths towards saturation R Grimal*, CEREMA, France
	D3_OS1_04	Does selection of link influence the O-D matrix estimation from link counts? An experience in Bhubaneswar City S Annam*, D. Basu, B. Maitra, Indian Institute of Technology Kharagpur, India
	D3_OS1_05	Practical population synthesis enhancements to support advanced and activity-based travel demand models R Balakrishna*, S. Sundaram, Caliper Corporation, USA
		D3 – OS2: Shared Mobility and Services Room: VMCC33
		Session Chair: Alexis Fillone
16:30-18:10	D3_OS2_01	The future of public transport in rural areas – A German case study on ridesharing with autonomous vehicles M. von Mörner ^{1,2} , R Linke* ¹ , M. Boltze ¹ , ¹ Institute for Transport Planning and Traffic Engineering (IVV) Technische Universität Darmstadt, Germany, Germany, ² Planungsbüro von Mörner, Germany
	D3_OS2_02	Perception of parents towards willingness-to-pay for improved service of shared modes for school transportation in Urban India
		P Prasad*, B. Maitra, Indian Institute of Technology Kharagpur, India
	D3_OS2_03	A user-based relocation strategy for free-floating bike sharing system: A case study of Beijing, China S. Chang, Z Liu*, National Taiwan University, Taiwan
	D3_OS2_04	Fully automated vehicles: A cost-based analysis of the share of ownership and mobility services Z Wadud* ¹ , G. Mattioli ² , ¹ University of Leeds, United Kingdom, ² Technical University of Dortmund, Germany
		Tuesday, 28 May 2019
		D3 – OS3: Travel Behaviour and Public Transport
		Room: VMCC33 Session Chair: Manfred Boltze
11:30-13:10	D3_OS3_01	Familiar strangers in our midst: An exploratory study of Beijing metro encounters
	D3_OS3_02	J Zhou*, The University of Hong Kong, Hong Kong Investigating route selection by operators for optimizing earning- an Agent Based Modelling approach R Sawarkar*, A. Patil, Visvesvaraya National Institute of Technology, India





	D3_OS3_03	Mode choice in home-to-work travel in mid-size towns: The competitiveness of public transport when bicycling and walking are viable options J Holmgren*1, P. Ivehammar2, 1Specialized University in Logistics, Norway, 2Linköping University, Sweden
	D3_OS3_04	Are rail punctuality indicators useful? Some evidence from user's perceptions T Blayac* ¹ , A. Mbairadjim Moussa ² , M. Stéphan ³ , ¹ CEE-M - University of Montpellier, France, ² Fairway AI, France, ³ CREM - University of Rennes 1, France
	D3_OS3_05	Profiling commuters' travel behavior in the pacific states of the continental U. S T Fabusuyi*1, R. Hampshire1, Z. Qian2, 1University of Michigan, USA, 2Carnegie Mellon University, USA
		Wednesday, 29 May 2019
		D3 – OS4: Travel Behaviour Analysis and Application-I Room: VMCC33
		Session Chair: Shyue-Koong Chang
09:30-11:10	D3_OS4_01	Basics on categorizing travel-time-based degrees of satisfaction using triangular fuzzy-membership functions A. Anand*1, V. George ¹ , R. Kanthi ² , T. Moduga ³ , M. Padmashree ¹ , ¹ National Institute of Technology Karnataka, India, ² ARCADIS Design and Consultancy, India, ³ Systra MVA Consulting
		(India) Private Limited, India
	D3_OS4_02	Analysis of travel characteristics based on smart card data using non-negative tensor factorization
	D2 OS4 02	M. Hosoe*, M. Kuwano, K. Tanimoto, <i>Tottori University, Japan</i> Understanding household vehicle ownership in Singapore through a comparison of
	D3_034_03	econometric and machine learning models R Basu*1,2, J. Ferreira ^{1,2} , ¹ MIT, USA, ² SMART, Singapore
	D3_OS4_04	Vulnerability analysis based on Reliability Based User Equilibrium (RUE) with day to day demand variations S Susilawati*, S. Hew, Monash University Malaysia, Malaysia
	D3_OS4_05	Investigation of motorcycle rider's Ergonomic Discomfort and Musculoskeletal Disorders in right wrist due to throttling while driving a motorcycle
		V. Deepan*, M. Subramanian, BSA. Crescent Institute of science and Technology, India
		D3 – OS5: Travel Behaviour Analysis and Application-II Room: VMCC33 Session Chair: Johan Holmgren
14:30-16:10	D3_OS5_01	Prioritizing attributes for pedestrian facility improvement in a historically significant tier-ii Indian city Y. Charaipotra, P. Prasad, M Francis*, B. Maitra, IIT, India
	D3_OS5_02	
	D3_OS5_04	Evaluation of senior pedestrian's travel experience at temple sites- A case of Ekamara Kshetra Bhubaneswar R. Mohanty*, P. S. Chani, IIT Roorkee, India
	D3_OS5_05	Development of an integrated model system of transport and residential energy consumption S Sharda*, T. Kim, S. Khoeini, I. Batur, D. Capasso Da Silva, R. Pendyala, <i>Arizona State University</i> , <i>USA</i>
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D4: Ap	D4: Applications of Travel Behaviour Analysis and Demand Modeling Approaches		
	Monday, 27 May 2019		
		D4 – OS1: ICT, Activities and Travel Behavior	
		Room: VMCC31	
		Session Chair: Juan Antonio Carrasco	
16:30-18:10	D4_OS1_01	Understanding the impact of information and communication technology on travel behaviour S Sharma*, University of Glasgow, India	
	D4_OS1_02	Is ICT improving access to activities? A case study of Mumbai, India	
		V Varghese*, A. Jana, Indian Institute of Technology Bombay, India	
	D4_OS1_03	Travel information and mobility behavior changes –some lessons from a survey in a French metropolis	
		T Blayac* ¹ , M. Stéphan ² , ¹ CEE-M - University of Montpellier, France, ² CREM - University of Rennes 1, France	
	D4_OS1_04	The challenge of inducing large-scale modal change in cities: Leveraging technology to automate Voluntary Travel Behavior Change programs M Lagadic*, A Rocci*, N Louvet*, 6t - Bureau de Recherche, France	
	L	Tuesday, 28 May 2019	
		D4 – OS2: ICT and Travel Time Use	
		Room: VMCC31	
		Session Chair: Giovanni Circella	
11:30-13:10	D4_OS2_01	The impact of free WiFi on rail passengers time use J Jain*, W. Clayton, C. Bartle, D. Toher, K. Chatterjee, University of the West of England, United Kingdom	
	D4_OS2_02	Beyond traditional value of time: passenger behaviour regarding multimodal door-to-door travels in the age of information technologies N Lenoir*, I. Laplace, ENAC (French Civil Aviation University), France	
	D4 O53 03	WITHDRAWN	
		Lost time or won time?	
	D4_032_04	M. Siska, V Oszter*, KTI Institute for Transport Sciences, Saint-Barthélemy	
	D4_OS2_05	Use and usefulness of travel time in fully automated vehicles, and their relationship with intention to use	
		Z Wadud* ¹ , F. Huda ² , ¹ University of Leeds, United Kingdom, ² East West University, Bangladesh	





TOPIC E: TRANSPORT SYSTEM ANALYSIS AND ECONOMIC EVALUATION E1: Transport System Analysis and Economic Evaluation		
		E1 – OS1: Value of Time Room: VMCC23 Session Chair: Eckhard Szimba
14:30-16:10	E1_OS1_01	Granting of a concession to an integrated public passenger transport operator in a competitive procedure B Korže*, University of Ljubljana, Slovenia
	E1_OS1_02	Assessing travel time savings and user benefits of automated driving – A case study for a commuting relation E Szimba*¹, M. Hartmann², ¹Karlsruhe Institute of Technology (KIT), Institute of Economics (ECON), Network Economics, Germany, ²Karlsruhe Institute of Technology (KIT), Institute for Transport Studies, Germany
	E1_OS1_03	WITHDRAWN
	E1_OS1_04	Spatial variation of travel time uncertainty in container shipping H Jia*¹, J. Lam², N. Tran³, ¹Center for Applied Research, Norway, ²Maritime Energy & Sustainable Development Centre of Excellence, Singapore, ³Nanyang Technological University, Singapore
		E1 – OS2: Performance Measurement
		Room: VMCC23
		Session Chair: Fusun Ulengin
16:30-18:10	E1_OS2_01	A two-way interaction between competitiveness and logistics performance of countries S. Onsel Ekici ¹ , F Ülengin* ² , O. Kabak ³ , ¹ Dogus University, Turkey, ² Sabanci University, Turkey, ³ Istanbul Technical University, Turkey
	E1_OS2_02	Performance appraisal of new sustainable modes of high-speed freight transport: The case of hyperloop in Canada M. Lachaize ^{1,2} , A Kinra* ¹ , W Rothengatter* ³ , ¹ Copenhagen Business School, Denmark, ² Transpoalnc., Canada, ³ Karlsruhe Institute of Technology (KIT), Germany
	E1_OS2_03	Economic evaluation of traffic congestion at intersection: Case study from an Indian City C Muneera*, K. Karuppanagounder, National Institute of Technology Calicut, India
	E1_OS2_04	Possibilities of using Incoterms clauses in a country logistics performance assessment and benchmarking D Stojanović*, J. Ivetić, University of Novi Sad, Serbia
	E1_OS2_05	Factors affecting performance of urban bus transport systems in India: A Data Envelopment Analysis (DEA) based approach R Gadepalli*1, S. Rayaprolu², ¹Indian Institute of Technology Delhi, India, ²Independent Researcher, India
		Tuesday, 28 May 2019
		E1 – OS3: Urban Transport Room: VMCC23 Session Chair: Assadollah Saighani
09:30-11:10	E1_OS3_01	Economical comparison of urban transport systems A Saighani*, C. Sommer, University of Kassel, Germany



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	E1_OS3_02	TRIMIS: Modular development of an integrated policy-support tool for forward-oriented
		transport research and innovation analysis
		T. Anastasios*, K. Gkoumas, F. Pekar, M. Grosso, G. Haq, M. van Balen,
		European Commission, Italy
	E1_OS3_03	Freight rail project evaluation- a cost-benefit analysis framework
		S. Sankarakumaraswamy ¹ , S Vadali* ² , A. Goodchild ¹ , K. Kuhn ³ ,
		¹ University of Washington, USA, ² Economic Insights and Research, USA, ³ Uber, USA
	E1_OS3_04	The technical dimensions behind scale economies induced by transit lines structures design
		A Fielbaum*, S. Jara-Diaz, A. Gschwender, <i>Universidad de Chile, Chile</i>
		Wednesday, 29 May 2019
		E1 – OS4: Air Transport
		Room: VMCC23
		Session Chair: Chantal Roucolle
09:30-11:10	E1_OS4_01	Expansion of international airline networks: An application to US carriers
		C Roucolle*1, T. Seregina1,2, M. Urdanoz2, 1ENAC, France, 2TBS, France
	E1_OS4_02	Regional economic effects of transport infrastructure development featuring trade gateway
		region-asymmetric spatial CGE model approach
		T Ishikura*, Tokyo Metropolitan University, Japan
	E1_OS4_03	Breakeven passenger traffic for regional Indian airports
		K. Iyer, S Jain*, Indian Institute of Technology Delhi, India
		E1 – OS5: Innovation
		Room: VMCC23
		Session Chair: Rudra P Pradhan
16:30-18:10	E1_OS5_01	The long relationships between ICT infrastructure, urbanization, transportation and economic
		growth
		R Pradhan*, Indian Institute of Technology Kharagpur, India
	E1_OS5_02	Simulation techniques for projecting traffic growth rate
		S Tabassum*, K Molugaram*, Osmania University, India
	E1_OS5_03	Connected and automated transport: research and innovation capacity in Europe
		K. Gkoumas, M. van Balen, A Tsakalidis*, F. Pekar,
		European Commission, Joint Research Centre, Italy
	E1_OS5_04	Understanding structural barriers of innovations towards sustainable transportation
		S Müller*, German Aerospace Center (DLR), Germany

	E2: Transport Pricing and Economic Regulation		
	Wednesday, 29 May 2019		
	E2 – OS1: Transport Pricing and Economic Regulation - I Room: VMCC22 Session Chair: Charles Raux		
09:30-11:10	E2_OS1_01	Effects of ticket inspection levels: A Quasi-Experimental Approach S Keuchel*, C. Swertz, Westphalian University of Applied Sciences, Germany	
		The determination of distance based toll for urban expressway with deep learning approach H. Inokuchi ¹ , C Quan Kui* ² , T. Akiyama ¹ , ¹ Kansai University, Japan, ² Graduate school of Kansai University, Japan	
	E2_OS1_04	Aggrandize non-fare box revenues for MRTS projects: Mumbai monorail a case study G Sasane*, M Kulkarni*, Mumbai Metropolitan Region Development Authority (MMRDA), India	



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	E2 – OS2: Transport Pricing and Economic Regulation - II Room: VMCC22 Session Chair Page Page	
	I	Session Chair: Paolo Beria
11:30-13:10	E2_OS2_01	Inter-regional migration, commuting, and transportation tariffs A Dementiev* ¹ , I. Tretiakova ² , ¹ Higher School of Economics, Russian Federation, ² London Business School, United Kingdom
	E2_OS2_02	Analysis of revenues, costs and average costs of highway concessions in Chile C. Vergara-Novoa, J Sepúlveda Rojas*, M. Alfaro, P. Soto, <i>University of Santiago de Chile, Chile</i>
	E2_OS2_03	The relations among financial and economic aspects in the evaluation of infrastructures M Ponti*, F Ramella*, Bridges Research, Italy
	E2_OS2_04	Funding for roads in South Africa: Understanding the principles of fair and efficient road user charges J Van Rensburg*, S. Krygsman, Stellenbosch University, South Africa
	E2_OS2_05	Success factors for financial sustainability of toll road projects: Empirical evidence from China T Thi My Thanh* ¹ , C. Charoenngam ² , ¹ University of Transport Technology, Vietnam, ² Asian Institute of Technology, Thailand
		E2 – OS3: Transport Pricing and Economic Regulation – III
		Room: VMCC22
		Session Chair: Katsuhiro Yamaguchi
14:30-16:10	E2_OS3_01	Effects of the reduction of train path charges on the competition between bus and train - a simulation model C. Burgdorf ¹ , A. Eisenkopf ² , A Knorr* ³ , ¹ KCW GmbH, Germany, ² Zeppelin University, Germany, ³ German University of Administrative Sciences Speyer, Germany
	E2_OS3_02	Mergers after deregulation: What about price effects in the long-distance bus industry in France? T Blayac*1,2, P. Bougette³, ¹CEE-M and University of Montpellier, France, ²University of Montpellier, France, ³GREDEG and University of Nice, France
	E2_OS3_03	WITHDRAWN
	E2_OS3_04	Dual price premium in the domestic air transport market of Japan K Yamaguchi*, The University of Tokyo, Japan
	E2_OS3_05	Taxi devastation fallacy, technology, and other issues: the case of Bogotá, Colombia A Rodriguez Valencia*, J. Cala, D. Paris, J. Pinzon, <i>Universidad de los Andes, Colombia</i>

	TOPIC F: TRANSPORT, LAND USE, AND SUSTAINABILITY			
	F1: Transport and Spatial Development			
	Monday, 27 May 2019			
	F1 – OS1: Network Analysis and Land Use			
	Room: CE208			
	Session Chair: John Douglas Hunt			
14:30-16:10	F1_OS1_01	Network measures of polycentricity		
		S Sarkar*, H. Wu, D. Levinson, <i>The University of Sydney, Australia</i>		

F1_OS1_02 The physical and ecological space consumed by transport modes in Rajkot City, India

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		M. Will ¹ , Y. Cornet ² , T Munshi* ³ , ¹ Technical University of Denmark, Denmark, ² University of Zilina, Slovakia, ³ UNEP DTU, Denmark
	F1_OS1_03	
		International Islamic University Malaysia, Malaysia
F1 – OS2	: Impact of L	Irban Design on Travel Behavior & Impact of Transportation on Urban Development Room: CE208
		Session Chair: Martin Kagerbauer
16:30-18:10	F1_OS2_01	Social cost of TOD: Evaluation on housing affordability along MRT corridor in Dhaka applying H+T index A Haque*1,2, F. Sharna*1, A Khan*1, 1Jahangirnagar University, Bangladesh, 2The University of Hong Kong, Hong Kong
	F1_OS2_02	
	F1_OS2_04	TOD in high-density urban environment: Vehicle ownership and mode choice in Shanghai city center H. Pan ¹ , T Chen* ¹ , Y. Ge ² , ¹ Tongji University, China, ² University of Washington, USA
	F1_OS2_05	Estimation of trip generation rates for different land uses P. N. Salini*, A. S Krishna, National Transportation Planning and Research Centre (NATPAC), India
		Tuesday, 28 May 2019
	F1 – (OS3: New Developments in Integrated Land Use/Transport Modeling
		Room: CE208
10.00.10.10		Session Chair: Masanobu Kii
16:30-18:10	F1_OS3_01	Estimating space use pattern for integrated urban models using a spatial linear programming and a genetic algorithm approach M Zhong* ^{1,2,3} , W. Wang ^{1,3,2} , B. Yu ^{2,3,1} , J. Hunt ^{2,4} , ¹ National Engineering Research Center for Water Transport Safety, China, ² Wuhan University of Technology, China, ³ Ministry of Education, China, ⁴ University of Calgary, Canada
	F1_OS3_02	
	F1_OS3_03	Residential demand and supply in the Alberta PECAS model J Hunt* ¹ , J. Abraham ² , A. Silva ² , G. Fuenmayor ² , G. Hill ² , S. Kaul ² , ¹ University of Calgary, Canada, ² HBA Specto Incorporated, Canada
	F1_OS3_04	The spatial effects of transport investments in Bangladesh
		M Lebrand*, M. Herrera-Dappe, <i>The World Bank, USA</i>
	F1 OC4	Wednesday, 29 May 2019
	F1 – US4	Reproof by Numbers: Analysis of Built Environment and Travel Behavior Room: CE208 Session Chair: Somwrita Sarkar
16:30-18:10	F1_OS4_01	Does the built environment shape commuting? The case of Lyon (France) A. Lamatkhanova, C Raux*, L. Grassot, LAET, University of Lyon, France



F1_OS5_03



	F1_OS4_02	Effects of congestion charge on relocation decisions under non-capital functions relieving strategy in Beijing, China K Geng*, Y. Wang, H. Zhou, Beijing Jiaotong University, China		
	F1_OS4_03	Application of fractal analysis in evaluation of urban road networks in small sized city of India: Case city of Karimnagar S Dasari*, S. Gupta, School of planning & Architecture, India		
	F1_OS4_04	Car dependency in Flanders (Belgium): you tell me who you are, I'll tell you if you drive E Van Eenoo*, K. Fransen, K. Boussauw, Vrije Universiteit Brussel, Belgium		
	F1_OS4_05	Modelling residential mobility decision and its impact on car ownership and travel mode transition M. B. Haque*1,2, C. Choudhury1, S. Hess1, R. C. dit Sourd1 ¹ University of Leeds, United Kingdom. ² Shahjalal University of Science and Technology, Bangladesh		
	Thursday, 30 May 2019			
		1 – OS5: Transit Stations to Promote Sustainable Urban Design Room: CE208 Session Chair: Roberta Prosini Cadena		
09:30-11:10	F1_OS5_01	Population Analysis in areas along newly developed Urban Rails in the North East area of Tokyo Metropolitan Region K. Ochiai ¹ , Y. Makimura ² , N. Ito ¹ , J. Suehara ¹ , H Asami* ¹ , ¹ JRTT, Japan, ² CRP, Japan		
	F1_OS5_02	A decision model for railway project and development density using a multi-objective optimization method I Ryu*, S Ryu*, Y Yi*, K Choi*, Ajou University, Korea, Republic of		

F2: Transport, Climate Change and Clean Air			
Monday, 27 May 2019			
	F2 – OS1: Environmental Effects from Busses		
		Room: CE110	
		Session Chair: Antonio Musso	
14:30-16:10	F2_OS1_01	Testing innovations for increased energy efficiency of electric buses: Evidence from the EBSF_2 project M. Tozzi¹, M Corazza*², U. Guida¹, A Musso*², ¹UITP, Belgium, ²Sapienza University of Rome, Italy	
	F2_OS1_02	Design methodology for the electrification of urban bus lines with battery electric buses M Tesar*, K. Berthold, J. Gruhler, P. Gratzfeld, <i>Karlsruhe Institute of Technology, Germany</i>	
	F2_OS1_03	The need for economic, social and environmental solutions for more efficient and cleaner heavy-duty vehicles M. Berecibar*¹, A. Serra², I. Munoz³, T. Coosemans¹, J. Van Mierlo¹, M. Messagie¹ ¹Vrije Universiteit Brussel, Belgium. ²Bax & Company, Spain. ³Applus IDIADA, Spain	

future railway-led urban development in India

India, ²Nikken Sekkei Research Institute, Japan

A study of Mumbai and Hyderabad's intermodal transportation hubs and their potential in

M. Ahmed¹, N. Srivastava², G. Tipnis¹, S. Matsumura*², ¹Edifice Consultants Private Limited,





		F2 – OS2: Aviation & Environment
		Room: CE110
		Session Chair: Janina Scheelhaase
16:30-18:10	F2_OS2_01	Cost and competitive impacts of addressing aviation's full climate impact by the European
		Emissions Trading Scheme J Scheelhaase*, German Aerospace Centre (DLR), Germany
	E2 OS2 O2	Mitigating the climate change impacts of aviation through behavioural change
	FZ_U3Z_UZ	S Baumeister*, University of Jyväskylä, School of Business and Economics, Corporate
		Environmental Management Research Group, Finland
	F2_OS2_03	Evaluation CO ₂ emissions of flight delay at taxiing phase in Bandaranaike International
		Airport (BIA)
		M Dissanayaka*, V. Adikariwattage, H. Pasindu, <i>University of Moratuwa, Sri Lanka</i>
	F2_OS2_04	An investigation on potential measures for reducing air transport emissions in Europe
		A. Lopez-Lazaro ¹ , G Alonso* ¹ , A. Benito ¹ , D. Perez-Campuzano ² , ¹ ETSIAE/UPM, Spain,
		² FCEE/UAM, Spain
		Tuesday, 28 May 2019
		F2 – OS3: Environmental Effects from Electric Vehicles
		Room: CE110
		Session Chair: Patrick Jochem
09:30-11:10	F2_OS3_01	The impact of e-Mobility on the Italian electricity system the impact of e-mobility on the
		Italian electricity system
		S Abd Alla*, V. Bianco, F. Scarpa, L. Tagliafico, <i>University of Genoa, Italy</i>
	F2_OS3_02	Solar hybrid E-cargo rickshaw for urban transportation demand in India
		S Kumar*, R. Bharj, <i>NIT Jalandhar, India</i>
	F2_OS3_03	An empirical investigation of electric vehicle user charging behaviors in an urban setting
		M. Klotz, H Friedrich*, B. Dahmen, Kühne Logistics University, Germany
	F2_OS3_04	Hybrid, plug-in hybrid and battery electric vehicles – environmental insights and
		opportunities – a decision maker's perspective M. Messagie*1, T. Coosemans1, J. Van Mierlo1,2,
		¹ Vrije Universiteit Brussel, Belgium. ² Flandersmake, Belgium
		F2 – OS4: Methods in Environmental Transport Research Room: CE110
		Session Chair: Marie Louis
16:30-18:10	E2 OS4 O2	
16:30-18:10	F2_OS4_02	Developing driving cycles using k-means clustering and determining their optimal duration R. Desineedi, S Mahesh*, G. Ramadurai, <i>IIT Madras, India</i>
	E2 OS4 O2	
	F2_OS4_03	Greenhouse gas emissions associated with road transport: Current status, benchmarking, and assessment tools
		F Albuquerque* ¹ , M. Maraqa ¹ , R. Chowdhury ² , T. Mauga ¹ , M. Alzard ¹ ,
		¹ United Arab Emirates University, UAE, ² University of Southern Queensland, Australia
	F2_OS4_04	Optimizing the modal split to reduce carbon dioxide emission for resource-constrained
	_ =	societies
		M. Maheshwari, A Jana*, S. Bandopadhyay, Indian Institute of Technology Bombay, India
	F2_OS4_05	Holistic evaluation of the impacts of additive manufacturing on sustainability, distribution
	_	costs, and time in global supply chains
		M Dircksen*, C. Feldmann, Fachhochschule Muenster, Germany





		F2 – OS5: Environmental Issues in Urban Areas I
		Room: CE110
		Session Chair: Mahak Agrawal
16:30-18:10 F2_0 5	_	Characteristics of exhaust and non-exhaust emissions from urban roads – a case study in
		Delhi city
		D Alshetty*1, S. Kuppili¹, S. S.M.¹, G. Ramadurai¹, V. Sethi¹, R. Kumar², N. Sharma³, A. Namdeo⁴,
		M. Bell ⁴ , P. Goodman ⁴ , ¹ Indian Institute of Technology - Madras, India, ² CSIR-NEERI, India,
		³ CSIR-Central Road Research Institute (CRRI), India, ⁴Newcastle University, United Kingdom
F2_05	_	Impact of rainfall on travel time and fuel usage for Greater Mumbai city
		A. Soni, M Chandel*, Indian Institute of Technology Bombay, India
F2_0		The perception of air pollution exposure from commuting in Ho Chi Minh City, Vietnam
		A Leung ^{*1} , T. Le ² , ¹ Griffith University, Australia, ² Vietnam Aviation Academy, Vietnam
		Thursday, 30 May 2019
		F2 – OS5: Environmental Issues in Urban Areas II
		Room: CE110
		Session Chair: Maarten Messagie
09:30-11:10 F2_0	S6_01	Food open-air markets in Paris: transportation environmental issues
		R. Benoit, C. Gunot, S. Tamayo*, A. Gaudron, F. Fontane, <i>Mines ParisTech - PSL, France</i>
F2_05	S6_02	The environmental benefits of carsharing: the case study of Palermo.
		M. Migliore ¹ , G D Orso* ¹ , D. Caminiti ² , ¹ University of Palermo, Italy, ² AMAT Palermo, Italy
F2_0	S6_03	Sustainable Urban Transportation Approaches: Life-Cycle Assessment Perspective of
_		Passenger Transport Modes in Qatar
		F. Al-Thawadi, Y. Weldu, S Al Ghamdi*, Hamad Bin Khalifa University, Qatar

F3: Smart Transport, Smart City, and Quality of Life				
	Tuesday, 28 May 2019			
	F3 – OS1: Smart Mobility			
		Room: CE209		
	Session Chair: Yoshitsugu Hayashi			
09:30-11:10	F3_OS1_01	Defining on-demand mobility system variables through qualitative research C Assmann* ^{1,2,3} , C. Tully ⁴ , G. Wulfhorst ¹ , T. Haas ² , ¹ Technical University of Munich, Germany, ² BMW Group, Germany, ³ mobil.LAB - Doctoral Research Group, Germany, ⁴ Free University of Bozen-Bolzano, Italy,		
	F3_OS1_02	Assessing the impact of population mobility on public expenditures while shopping A. Galkin ¹ , C Kumar* ² , M. Kadnychanskyi ¹ , I. Balandina ¹ , A. Ryabev ¹ , I. Litomin ¹ , ¹ O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine, ² Jindal Global University, India		
	F3_OS1_03	Sharing cars: A legal and economic analysis of B2C car sharing models F Vanrykel*1, B. De Borger2, M. Bourgeois1, 1ULiège, Belgium, 2UAntwerp, Belgium		
	F3_OS1_04	Taxi vs. demand responsive shared transport systems: an agent-based simulation approach G. Inturri ¹ , N Giuffrida* ¹ , M. Ignaccolo ¹ , M. Le Pira ¹ , A. Pluchino ^{1,2} , A. Rapisarda ^{1,2} , R. D'Angelo ³ , ¹ University of Catania, Italy, ² INFN, Italy, ³ MVMANT, Italy		
	F3_OS1_05	Electric vehicle tour planning with multiple types of recharging stations Y Wang*, C Lu*, H Kang*, National Penghu University of Science and Technology, Taiwan		





		F3 – OS2: Smart City and Quality of Life
		Room: CE209
		Session Chair: Ye Li
11:30-13:10	F3_OS2_01	Innovative planning model for the smart city mission of India V. Gusain, S Dhingra*, IIT, India
	F3_OS2_02	Comparative performance evaluation of public transport services from city perspective J. Gurjar ^{1,2} , Jain ² , P Agarwal* ³ , ¹ Government Engineering College Rewa, India, ² MANIT, India, ³ MANIT, India
	F3_OS2_03	A QOL evaluation method for SDGs and GNH in urban transport planning with an application to Japanese and German cities Y. Khoo¹, Y Hayashi*², F. Gu³, N. Kachi⁴, S. Nakamura⁵, ¹Toyo Business Engineering Corporation, Japan, ²Chubu University, Japan, ³Nanjing University, China, ⁴Toyo University, Japan, ⁵Nagoya University, Japan
	F3_OS2_04	Assessment of urban development from urban quality of life score for Indian cities G Sharma*, G. Patil, Indian Institute of Technology - Bombay, India
		Wednesday, 29 May 2019
		F3 – OS3: Smart and Sustainable Transport Room: CE209 Session Chair: Xiao Luo
11:30-13:10	F3_OS3_01	Provisioning a demand-orientated bus system for public transportation E Neidhardt*, A. Sauerländer-Biebl, German Aerospace Center (DLR), Institute of Transportation Systems, Germany
	F3_OS3_02	Hosting mega event - Drive towards sustainable planning for public transport - Case Study: Metro Line Route 2020 B. Taha, A. Allan*, University of South Australia, Australia
	F3_OS3_03	Is the driverless future sustainable? - Strategic uncertainties and system impacts A Engholm*1, I. Kristoffersson², A. Pernestål Brenden¹, ¹Integrated Transport Research Lab - KTH Royal Institute of Technology, Sweden, ²VTI Swedish National Road and Transport Research Institute, Sweden
	F3_OS3_04	WITHDRAWN
	F3_OS3_05	Assessing the effects of mobility on air quality: The Liverpool smart pedestrian project N. Verstaevel, J Barthélemy*, H. Forehead, P. Perez, University of Wollongong, Australia

		F4: Livability and Non-Motorized Transport
		Monday, 27 May 2019
		F4 – OS1: Pedestrian Level of Service and Walkability Room: CE209 Session Chair: Matthew Burke
14:30-16:10	F4_OS1_01	Investigating relationship between the importance of the factors affecting PLOS and level of satisfaction on footpath N Raad*, M Burke*, Griffith University, Australia
	F4_OS1_02	Spatio-temporal distribution of crossing pedestrians in urban cities of developing countries V. Wickramasinghe ¹ , S Dissanayake* ² , ¹ University of Peradeniya, Sri Lanka, ² Kansas State University, USA





	F4_OS1_03	Developing a relationship between user satisfaction, physical environment, and behaviour — A case of pedestrian infrastructure P. Kumar ¹ , D. Nag ¹ , E. Bhaduri ² , A Goswami* ¹ , ¹ T, India, ² T, India
	F4_OS1_04	Modelling pedestrian perspectives in evaluating satisfaction levels of urban roadway walking facilities R Sahani*1, P Bhuyan*2, ITER, SOA University, India, NIT Rourkela, India
		Wednesday, 29 May 2019
		F4 – OS2: Public Transport Integration with Active Travel
		Room: CE209 Session Chair: Gaurang Joshi
11:30-13:10	F4_OS2_01	Evaluation of walking environment around urban railway station in Bangkok metropolitan area and proposal for its improvement H Ozawa*1, A Fukuda*1, S. Malaitham2, H. Numa1, V. Vichiensan3, 1Nihon University, Japan, 2PSK Consultant co., Itd., Thailand, 3Kasetsart University, Thailand
	F4_OS2_02	How accessible are bus stops for pedestrians in Delhi? S. Lakhotia, K. Rao, G Tiwari*, Indian Institute of Technology Delhi, India
	F4_OS2_03	Study on the characteristics of Japanese transit oriented development as seen from long- term land-use changes K Takayama*1, Y. Watanabe², H. Chang¹, A. Morimoto¹, ¹Waseda University, Japan, ²Tokyu Corporation, Japan
	F4_OS2_04	Application of system dynamic model for transport mode behaviour analysis of Urban Transport system: A case-study of Indian metro cities R. Zope, V. N., S Arkatkar*, G. Joshi, Sardar Vallabhbhai National Institute of Technology, India
F4	– OS3: Innov	vations in Bicycle Research: Level of Service, Bike Share, Rickshaws and Safety
		Room: CE209 Session Chair: Prasanta Kumar Bhuyan
14:30-16:10	F4_OS3_01	Service quality analysis of signalized intersections from the perspective of bicycling S Beura*, K. Vinod Kumar, S. Suman, M. Panda, P Bhuyan*, NIT Rourkela, India
	F4_OS3_02	Bicycle Comfort Level Rating (BCLR) model for urban street segments in developing countries S Beura*, H. Chellapilla, P. Bhuyan, NIT Rourkela, India
	F4_OS3_03	Planning of Public Bicycle (bike) Sharing System (PBSS): A case study of Surat city S Patel*, C Patel*, G Joshi*, Sardar Vallabhbhai National Institute of Technology, India
	F4_OS3_04	Trip generation and trip rate analysis for cycle rickshaws in Delhi: A step towards sustainable transportation G Saiyad*1, M*2, R Kumar*2, 1FTE-The M.S. University of Baroda, India, 2CSIR- Central Road Research Institute, India
	F4	- OS4: Willingness to Use Sustainable Travel and Reduce Car Use Room: CE209 Sossion Chair: Supanda Dissanavako
16:30-18:10	F4_OS4_01	Session Chair: Sunanda Dissanayake Study on willingness to use non-motorized modes in a tier 3 city: A case study in India D Tiwari*, A. Bamney, Rewa Engineering College, India
	F4_OS4_02	Integrated transportation and land use activities for mass housing to increase non-motorized trips - A review paper S Ghoslya*, M. Advani, R. Kumar, CSIR - Central Road Research Institute, India





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	F4_OS4_03	Personal attitudes towards positive incentives to reduce the use of conventionally fuelled vehicles: A comparative study in Curitiba, Brazil.
		R Dos Reis*, S. Grant-Muller, F. Hodgson, <i>University of Leeds, United Kingdom</i>
	F4_OS4_04	The study on the dilemma of non-motorized transport in private car priority china cities taking Dalian as a case
		H Yunyue*, W. Ying, Shanghai Tongji Urban Planning & Design Institute, China
	F4_OS4_05	Toward a deeper understanding of elderly walking mode choice behavior: An analysis across genders in a case study of Iran Y Hatamzadeh*, A. Hoseinzadeh, Amirkabir University of Technology, Iran, Islamic Republic of
		Thursday, 30 May 2019
		F4 – OS5: Pedestrian Crossing Behaviour
		Room: CE209
		Session Chair: Justin S. Chang
16:30-18:10	F4_OS5_01	Examining pedestrian critical gap analysis at un-signalised midblock crosswalk sections in India
		V. S. Vinayaraj* ¹ , A. Chepuri ² , G. Joshi ² , M. Parida ³ , ¹ SVNIT, India, ² SVNIT, India, ³ IIT, India
	F4_OS5_02	Choice crossing behaviour model for safety margin of pedestrian at mid-blocks in India A. Chaudari ¹ , N. Gore* ¹ , S. Arkatkar ¹ , G. Joshi ¹ , M. Parida ² , ¹ SVNIT, India, ² IIT Roorkee, India
	F4_OS5_03	Does gender affect the parameters influencing pedestrian level of service of sidewalks? An analysis using structural equation modelling approach
		G Bivina*, M. Parida, Indian Institute of Technology Roorkee, India
	F4_OS5_04	Identifying priority crosswalk locations in urban road networks S Han*1, J Chang*2, ¹Korea Transport Institute, Korea, Republic of, ²Seoul National University, Korea, Republic of
		Korea Transport Institute, Korea, Republic OJ, Seoul National Oliversity, Korea, Republic OJ

		TOPIC G: TRANSPORT PLANNING AND POLICY
		G1: Governance and Decision-Making Processes
		Monday, 27 May 2019
		G1 – OS1: Public Transport Governance Room: VMCC12 Session Chair: Louise Reardon
14:30-16:10	G1_OS1_01	How to create efficient public transport systems? A literature review of critical problems and approaches for addressing the problems R Hrelja*1, F. Pettersson3, J Khan*3, (VTI) Swedish National Road and Transport Research Institute, Sweden, Knowledge Center for Public Transport), Sweden, Lund University, Sweden
	G1_OS1_02	A Study of a meta-governance framework for sustainable cities considering customers' potential mobility preferences N Hiroyuki*, Transport Researcher, Japan
	G1_OS1_03	Public private partnerships in city bus services- imperatives for a sustainable ecosystem in context of Indian cities L Parashar*1, S. Gupta², ¹Urban Transportation Planner, India, ²School of planning and architecture, India





	G1_OS1_04	Coordination mechanisms to reduce misalignment among unbundled business units: A case study of vertically integrated Japanese railways E Nakamura*1, H. Sakai1, D. van de Velde2,3, 1Kobe University, Japan, 2Delft University of Technology, Netherlands, 3inno-V Consultancy, Netherlands
		Tuesday, 28 May 2019
		G1 – OS2: Decision-Support Room: VMCC12 Session Chair: Greg Marsden
09:30-11:10	G1_OS2_01	Highway infrastructure protection against sea level rise: Policy recommendations for cooperative and competitive decision-makers I Papakonstantinou*1,2, J. Lee³, S. Madanat², ¹New York University, USA, ²New York University Abu Dhabi, UAE, ³The Hong Kong Polytechnic University, Hong Kong
	G1_OS2_02	Developing context sensitive planning criteria for Transit Oriented Development (TOD): A fuzzy-group decision approach P. P. Kumar*1, M. Parida1, R. S. Chalumuri2, 1 Indian Institute of Technology Roorkee, India, 2 CSIR-Central Road Research Institute, India
	G1_OS2_03	Scaling functions for aligning evaluation criteria in transportation appraisal and decision making – A synthesis and case study S. Labi¹, A. Shirole², A. Amekudzi-Kennedy³, Z. Li⁴, P Chakraborty*⁵, Q. Bai⁶, ¹Purdue University, USA, ²S&A Shirole, USA, ³Georgia Institute of Technology, USA, ⁴Illinois Institute of Technology, USA, ⁵lowa State University, USA, ⁶Chang An University, China
	G1_OS2_04	Administrators roles in policy adaptation of transport directives – how knowledge is created and reproduced L Hansson*, Molde University College - Specialized University in Logistics, Norway
	G1_OS2_05	Performance evaluation of transport and logistics graduates of selected institutions in southwestern Nigeria A Somuyiwa*¹, A. Oduwole², O. Babatunde¹, ¹Ladoke Akintola University of Technology, Nigeria, ²FORSTECH, Nigeria
		G1 – OS3: Implementation Room: VMCC12 Session Chair: Louise Reardon
11:30-13:10	G1_OS3_01	Streamlining the implementation process in urban mobility: Lessons from the eccentric project in Madrid A. Aparicio*, Technical University Madrid (UPM), Spain
	G1_OS3_02	Understanding project cancellation risks in U.S. P3 surface transportation infrastructure L. McCarthy, L. Bolaños, J Gifford*, J. Kweun, George Mason University Center for Transportation Public Private Partnership Policy, USA
	G1_OS3_03	A revenue risk sharing approach for Public Private Partnership model used for construction of Sion-Panvel highway, Mumbai K Sawant*, V. Varekar, Veermata Jijabai Technological Institute, India
		Wednesday, 29 May 2019
		G1 – OS4: Smart Mobility Governance Room: VMCC12 Session Chair: Greg Marsden
11:30-13:10	G1_OS4_01	Mode-agnostic mobility contracts: Identifying broker/aggregator models for delivering mobility as a service (MaaS) Y Wong*, D. Hensher, C. Mulley, <i>University of Sydney, Australia</i>





	G1_OS4_02	Cities and the smart mobility transition: a preliminary assessment of two cities' efforts to steer innovation I Moscholidou*, University of Leeds, United Kingdom
	G1_OS4_03	Competence, interest and power in participatory transport planning: framing stakeholders in the "participation cube" M Le Pira*, G Inturri*, M Ignaccolo*, University of Catania, Italy
	G1_OS4_04	Untangling the Gordian Knot: Low-carbon electric mobility in India A Bose Styczynski*, O.P. Jindal Global University, India
		G1 – OS5: Emerging Economy Governance Room: VMCC12 Session Chair: Louise Reardon
14:30-16:10	G1_OS5_01	The cultures of decision-making: A qualitative study of urban transport projects in Alexandria, Egypt S Hassan*1, C. Wong², ¹University of Birmingham, United Kingdom, ²University of Manchester, United Kingdom
	G1_OS5_02	Urban transport governance practice and challenges in an emerging economy – case study of India V. Gijre, S Gupta*, School of Planning and Architecture, India
	G1_OS5_03	Do transport planners care about equity? Results from a web-based survey in Brazil T Guimarães*, K. Lucas, University of Leeds, United Kingdom
	G1_OS5_04	The political dimension of Brazilian port development: A content analysis of the 2013 new port law C Galvao*1, L. Robles², ¹Texas A&M University, USA, ²UFMA, Brazil

	G2:	National and Regional Transport Planning and Policy
		Monday, 27 May 2019
		G2 – OS1: Policy Session 1 Room: VMCC15 Session Chair: G. Emberger
14:30-16:10	G2_OS1_1	Validation and usability of floating car data for transportation policy research H. van der Loop ¹ , M. Kouwenhoven ² , P. van Bekkum ³ , N. Kijk in de Vegte ⁴ , H Meurs* ¹ , ¹ KiM Netherlands Institute for Transport Policy Analysis, Netherlands, ² Significance, Netherlands, ³ MuConsult, Netherlands, ⁴ Transpute, Netherlands
	G2_OS1_2	Empirical estimation of effects of flexible working on mobility and congestion in the Netherlands 2000-2016 H. van der Loop ¹ , J. Willigers ² , R. Haaijer ³ , H Meurs* ¹ , ¹ KiM Netherlands Institute for Transport Policy Analysis, Netherlands, ² Significance, Netherlands, ³ MuConsult, Netherlands
	G2_OS1_3	Analysis of toll discounts on nationwide expressway in Japan T. Kutsukake ¹ , Y. Mohri ² , H Oka* ² , S. Kaneko ³ , ¹ Metropolitan Expressway Company Limited, Japan, ² The Institute of Behavioral Sciences, Japan, ³ Creative Research and Planning Corporation Limited, Japan
	G2_OS1_4	Does the level of transportation service affect the disparity of activity opportunities between localities? H Kita*¹, H. Yotsutsuji², S. Komoda³, K. Yasunaga⁴, ¹Kobe University, Japan, ²CERI, PWRI, Japan, ³Hanshin Electric Railway Co.Ltd,, Japan, ⁴Osaka City Office, Japan





		G2 – OS2: Policy Session 2
		Room: VMCC15
		Session Chair: H. Kita
16:30-18:10	G2_OS2_1	Analysis of transport and logistics education regulations and economic development in Nigeria O Oyesiku*1, A. Somuyiwa1, A. Oduwole2, 1 Olabisi Onabanjo University, Nigeria, 2 FORSTECH, Nigeria
	G2_OS2_2	Investigating causality between transport infrastructure and urbanization: A state-level study of India (1991-2011) T Maparu* ¹ , T. Mazumder ² , ¹ National Institute of Technology Rourkela, India, ² Indian Institute of Technology Kharagpur, India
	G2_OS2_3	Development of residential parking regulations for Navi Mumbai G. Patil ¹ , H Shah* ¹ , P. Paithankar ¹ , A. Mondal ^{2,1} , R. Gurav ³ , M. Hussain ³ , ¹ Indian Institute of Technology Bombay, India, ² The University of Texas at Austin, USA, ³ Navi Mumbai Municipal Corporation, India
	•	Tuesday, 28 May 2019
		G2 – OS3: Road Transport Room: VMCC15 Session Chair: T. Maparu
09:30-11:10	G2_OS3_1	Trust and public acceptability of congestion charge in the Chinese context Q Liu*1, K. Lucas¹, G Marsden*1, Y. Liu², ¹University of Leeds, United Kingdom, ²Southeast University, China
	G2_OS3_2	Road learnings: Evolution of public-private partnerships in the indian highway sector S Garg*, M. Dayal, Indian Institute of Management Indore, India
	G2_OS3_3	Assessing the black spots focused policies for Indian highways L Bisht*, G. Tiwari, Indian Institute of Technology Delhi, India
	G2_OS3_4	Methodology for determining the break-even traffic volume for converting the roadway surface of low volume roads: Gravel Vs. Paved S Dissanayake*, H. Patel, E. Fitzsimmons, Kansas State University, USA
	G2_OS3_5	Stakeholder involvement in decision-making process:a test assessment towards transition to autonomous vehicles T Shibayama*1, G. Pungillo², H. Lemmerer¹, S. Nocera², ¹Vienna University of Technology, Austria, ²IUAV University of Venice, Italy
		G2 – OS4: New Mobility Services Room: VMCC15
16:30-18:10	G2_OS4_1	Session Chair: T. Shibayama Emerging types of mobility services and vehicle technologies, employed ICTs and implication for transport planning and policy T Shibayama*, G. Emberger, Vienna University of Technology, Austria
	G2_OS4_2	Spatial modeling of motor vehicle ownership status in the United States: Implications for car-sharing using the 2017 national household travel J. Liu, S Nambisan*, University of Alabama, USA
	G2_OS4_3	Exploring the dynamics of electric vehicle sales on monthly basis C Yang*, H. Titheridge, University College London, United Kingdom





		Wednesday, 29 May 2019
		G2 – OS5: Methods and Models
		Room: VMCC15
		Session Chair: C.Yang
14:30-16:10	G2_OS5_1	Under-evaluation of projects and traffic models C. Abraham ¹ , A Bonnafous* ² , J. Ray ³ , ¹ Emeritus General Engineer of the Ministry of Transport, France, ² LAET, University of Lyon, France, ³ Manager Movi'cité, France
	G2_OS5_2	Evolving term "Accessibility" in spatial systems: Contextual evaluation R Ahuja*, G. Tiwari, Indian Institute of Technology, Delhi, India
	G2_OS5_3	Estimating spatial economic impacts of transport infrastructure: Progress and practical availability of SCGE model analysis T Ukon*¹, A. Koike², K. Sato³, S. Katayama⁴, ¹Mitsubichi UFJ Research and Consulting Co., Ltd., Japan, ²Kobe University, Japan, ³Fukken Co., Ltd., Japan, ⁴Institute of System Science Research, Japan
		G2 – OS6: Rail Transport
		Room: VMCC15
		Session Chair: R. Ahuja
16:30-18:10	G2_OS6_1	Demand risk management of Private High-Speed Rail operators: A review of experiences in Japan and Taiwan N Bugalia*, Y. Maemura, K. Ozawa, <i>The University of Tokyo, Japan</i>
	G2_OS6_2	Rail bonus: An empirical study onto relative valuation of railway K Utsunomiya*1, T. Shibayama2, 1Kansai University, Japan, 2Vienna University of Technology, Austria
	G2_OS6_3	Optimum point of intersection selection in horizontal alignment design for highways and railways: Comparative study using path planner and ant-algorithm M.B. Sushma*, S Roy*, A. Maji, Indian Institute of Technology Bombay, India
	G2_OS6_4	Reduction of domestic air traffic at Istanbul airports via high-speed rail B Unsal*, Embry Riddle Aeronautical University, USA
		Thursday, 30 May 2019
		G2 – OS7: Freight and Long Distance Room: VMCC15 Session Chair: G. Emberger
09:30-11:10	G2_OS7_1	Evaluating post-megadisaster strategies against region-wide gasoline shortages in the aftermath of the Great East Japan Earthquake T Nagae*1, H. Yamaguchi², M. Osawa¹, T. Akamatsu¹, ¹Tohoku University, Japan, ²Kanazawa University, Japan
	G2_OS7_2	How to evaluate and plan the freight-passengers first-last mile S Nocera*, G. Pungillo, <i>Università IUAV di Venezia, Italy</i>
	G2_OS7_3	Cross-border public transport as a driver for tourism in the Alps F Cavallaro*, A. Dianin, Eurac Research, Italy
	G2_OS7_4	Evolving long-distance passenger services. From planned monopolies to deregulated competition P Beria*, A. Bertolin, <i>Politecnico di Milano, Italy</i>





		G3: Urban Transport Planning and Policy
		Monday, 27 May 2019
		G3 – OS1: Sharing Transport (2) Room: VMCC14 Session Chair: Maria Attard
14:30-16:10	G3_OS1_1	Impact of the introduction of single-trip fare product on bikeshare usage and revenue: the Capital Bikeshare experience M Venigalla*1, S Kaviti*1, T. Brennan², ¹George Mason University, USA, ²The College of New Jersey, USA
	G3_OS1_2	Modeling bikeshare user sensitivity and elasticity to pricing using monadic design and ordered logit S Kaviti*, M Venigalla*, George Mason University, USA
	G3_OS1_3	How much parking space can carsharing save? C Tchervenkov*, M. Balac, S. Hörl, H. Becker, K. Axhausen, ETH Zurich, Switzerland
	G3_OS1_4	The gendered dimension of multi-modality: exploring the bike sharing scheme of Oslo T Priya Uteng*1, H. Espegren², T. S. Throndsen³, L. Böcker³, ¹Institute of Transport Economics (TOI), Norway, ²Urban Infrastructure Partner AS (UIP), Norway, ³University of Oslo, Norway
		G3 – OS2: Public Transport in Urban Areas (1) Room: VMCC13 Session Chair: Mohamed-Jama Mohamed
16:30-18:10	G3_OS2_1	Travel time reliability to airport: Review and assessment
16:30-18:10		A Jose*, S. Ram, School of Planning and Architecture, India
	G3_OS2_2	Why do cities invest in bus priority measures? Policy, polity, and politics in three Scandinavian cities F. Pettersson ^{1,2} , C Sørensen* ^{3,2} , ¹ Lund University, Sweden, ² The Swedish Knowledge Centre for Public Transport (K2), Sweden, ³ The Swedish National Road and Transport Research Institute, Sweden
	G3_OS2_3	Demand-based model for line planning in public transport A Cyril*, R. Mulangi, V. George, National Institute of Technology Karnataka Surathkal, India
	G3_OS2_4	Critical appraisal of current BRT systems performance evaluation methods S Gandhi*, G. Tiwari, Indian Institute of Technology Delhi, India
	G3_OS2_5	UberPOOL Services – Approaches from transport operators and policy makers in London M Mohamed*, T. Rye, A. Fonzone, Edinburgh Napier University, United Kingdom
		G3 – OS3: Traffic in Urban Areas Room: VMCC14 Session Chair: Roman Klementschitz
16:30-18:10	G3_OS3_1	Reducing traffic congestion in Beirut: An empirical analysis of selected policy options A. Anas ¹ , S. De Sarkar ¹ , G Timilsina* ² , M. Abou Zeid ³ , Z. Nakat ⁴ , ¹ State University of New York at Buffalo, USA, ² World Bank, USA, ³ American University, Beirut, Lebanon, ⁴ World Bank, Lebanon
	G3_OS3_2	Estimating cost of traffic congestion for a developing city M Janwari* ¹ , G. tiwari ¹ , M. Mir ² , ¹ IIT Delhi, India, ² NIT Srinagar, India
	G3_OS3_3	Microsimulation modelling in VISSIM on short-term and long-term improvements for the Mangalore city road network M Bandi*, V. George, National Institute of Technology Karnataka, India
	G3_OS3_4	Suppressed traffic: A review of road capacity reduction policies and impacts A Broaddus*, Mineta Transportation Institute, USA





R Klementschitz*, Ö. Roider, University Bodenkultur, Austria G3_OS3_6 Complete campus: Vanderbilt's integrated transportation demand management and enhanced mobility program M Abkowitz*, E. Kopstain, C. Philip, L. Shoup, W. Barbour, A. George, E. Hafkenschiel, A. Majewski, Vanderbilt University, USA Tuesday, 28 May 2019 G3_OS4_1 Session Chair: Anna Fraszczyk 99:30-11:10 G3_OS4_2 Investigating the correlation between activity similarity and trip similarity of public transit passengers using smart card data H Faroqi*, M. Mesbah², J. Kim², ¹ñe University of Queensland, Australia, ²Amirkabir University, Iran, Islamic Republic of G3_OS4_3 The role of paratransit to support sustainable transportation: Case study of Khon Kaen City, Thailand P Wongwirtya*, F. Nakamura², S. Tanaka², R. Ariyoshi², S. Miura², ¹Khon Kaen University, Thailand P Wongwirtya*, F. Nakamura², S. Tanaka², R. Ariyoshi², S. Miura², ¹Khon Kaen University, Thailand G3_OS4_3 MITHDRAWN G3_OS4_5 Metro station naming strategies in selected megacities and lessons for new metro systems A Fraszczyk*, W. Weerawat, P. Kirawanich, Mahidol University, Thailand G3_OS5_5 Session Chair: Daniela Lessa Impacts of large urban regeneration projects: The case of the New Athens intercity bus terminal F. Orfanou, E. Vlahoglanni, G Yannis*, C. Moraitis, National Technical University of Athens, Greece G3_OS5_2 Why does my bus suddenly become so crowded? The spillover effect of the elimination of three-in-one policy in Jakarta J Paundra*, J. van Dalen¹, L. Rook², W. Ketter³, ¹Erasmus University, Netherlands, ²Delft University of Technology, India G3_OS5_4 Heterogeneity in perception of service quality attributes of bus transit across various user categories-A case of Kolkata T Bose*, D. Pandit, Indian Institute of Technology, India G3_OS5_4 Factor influencing demand by public transport in Colombia. An econometric analysis D. Tor-Gonzalez², V Cantillo³, ²Universidad Tecnologica de Bolivar, Colombia, ²Universidad		62 662 5	m 1 CC 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
G3_OS3_6 Complete campus: Vanderbilt's integrated transportation demand management and enhanced mobility program M Abkowitz*, E. Kopstain, C. Philip, L. Shoup, W. Barbour, A. George, E. Hafkenschiel, A. Majewski, Vanderbilt University, USA Tuesday, 28 May 2019 G3 - OS4: Public Transport in Urban Areas (2) Room: VMCC13 Session Chair: Anna Fraszczyk G3_OS4_1 Assessment of transit transfer experience: Case of Bangalore C. Cheriyan*1, Sishna*2, *Urban Mass Transit Company Ltd, Indio, *CEPT University, India G3_OS4_2 Investigating the correlation between activity similarity and trip similarity of public transit passengers using smart card data H Faroqi*4, M. Mesbah*2, I. Kim. *The University of Queensland, Australia, *Amirkabir University, Iran, Islamic Republic of G3_OS4_3 The role of paratransit to support sustainable transportation: Case study of Khon Kaen City, Thailand P Wongwiriya*1, F. Nakamura*2, S. Tanaka*2, R. Ariyoshi*2, S. Miura*2, *Ikhon Kaen University, Thailand, *Yokohama National University, Japan G3_OS4_4 WITHDRAWN G3_OS4_5 Metro station naming strategies in selected megacities and lessons for new metro systems A Fraszczyk*, W. Weerawat, P. Kirawanich, Mahidol University, Thailand G3_OS5_0S0S_Diblic Transport in Urban Areas (3) Room: VMCC13 Session Chair: Daniela Lessa Impacts of large urban regeneration projects: The case of the New Athens intercity bus terminal F. Orfanou, E. Vlahoglanni, G Yannis*, C. Moraitis, National Technical University of Athens, Greece G3_OS5_1 Why does my bus suddenly become so crowded? The spillover effect of the elimination of three-in-one policy in lakarta J Paundra*1, J. van Dalen¹1, L. Rook², W. Ketter³1, ¹Erasmus University, Netherlands, ²Delft University of Technology, Netherlands, *University of Cologne, Germany Heterogeneity in perception of service quality attributes of bus transit across various user categories-A case of Kolkata T Bose*, D. Pandit, Indian Institute of Technology, India G3_OSS_4 Factor influencing demand by public transport in Colomb		G3_OS3_5	From traffic management towards mobility management, the case of the city of Vienna
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M Abkowitz*, E. Kopstain, C. Philip, L. Shoup, W. Barbour, A. George, E. Hafkenschiel, A. Majewski, Vanderbilt University, USA Tuesday, 28 May 2019 G3 – OS4: Public Transport in Urban Areas (2) Room: VMCC13 Session Chair: Anna Fraszczyk 9:30-11:10 G3_OS4_1 Assessment of transit transfer experience: Case of Bangalore C Cheriyan*¹, S Sinha*², ¹Urban Mass Transit Company Ltd, India, ²CEPT University, India Investigating the correlation between activity similarity and trip similarity of public transit passengers using smart card data H Faroqi*¹, M. Mesbah¹², J. Kim¹, 'The University of Queensland, Australia, ²Amirkabir University, Iran, Islamic Republic of G3_OS4_3 The role of paratransit to support sustainable transportation: Case study of Khon Kaen City, Thailand P Wongwiriya*¹, F. Nakamura², S. Tanaka², R. Ariyoshi², S. Miura², ¹Khon Kaen University, Thailand, 'Yokohama National University, Japan G3_OS4_4 WITHDRAWN G3_OS4_5 Metro station naming strategies in selected megacities and lessons for new metro systems A Fraszczyk*, W. Weerawat, P. Kirawanich, Mahidol University, Thailand G3 – OSS: Public Transport in Urban Areas (3) Room: VMCC13 Session Chair; Daniela Lessa 1:30-13:10 G3_OS5_1 Impacts of large urban regeneration projects: The case of the New Athens intercity bus terminal F. Orfanou, E. Vlahogianni, G Yannis*, C. Moraitis, National Technical University of Athens, Greece G3_OS5_2 Why does my bus suddenly become so crowded? The spillover effect of the elimination of three-in-one policy in Jakarta J Paundra*¹, J. van Dalen¹, L. Rook², W. Ketter³¹, ¹Erasmus University, Netherlands, ²Delft University of Technology, Netherlands, ³University of Cologne, Germany G3_OS5_3 Heterogeneity in perception of service quality attributes of bus transit across various user categories- A case of Kolkata T Bose*, D. Pandit, Indian Institute of Technology, India G3_OS5_4 Factor influencing demand by public transport in Colombia. An econometric analysis D. Toro-Gonzalez¹, V Cantillo*², ¹Universidad Tecnol		G3_US3_6	1 , , ,
Tuesday, 28 May 2019 G3 – OS4: Public Transport in Urban Areas (2) Room: VMCC13 Session Chair: Anna Fraszczyk 9:30-11:10 G3_OS4_1 G3_OS4_2 G3_OS4_2 G3_OS4_2 G3_OS4_2 G3_OS4_3 G3_OS4_2 G3_OS4_3 G3_OS4_5 G3_OS5_1 G3_OS5_1 G3_OS5_1 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_1 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_1 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_2 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_3 G3_OS5_4 G3_OS5_5 G3_OS5_6 G3_OS5_6 G3_OS5_7 G3			,, ,
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Room: VMCC13 Session Chair: Daniela Lessa Impacts of large urban regeneration projects: The case of the New Athens intercity bus terminal F. Orfanou, E. Vlahogianni, G Yannis*, C. Moraitis, National Technical University of Athens, Greece G3_OS5_2 Why does my bus suddenly become so crowded? The spillover effect of the elimination of three-in-one policy in Jakarta J Paundra*1, J. van Dalen¹, L. Rook², W. Ketter³¹¹, ¹Erasmus University, Netherlands, ²Delft University of Technology, Netherlands, ³University of Cologne, Germany G3_OS5_3 Heterogeneity in perception of service quality attributes of bus transit across various user categories- A case of Kolkata T Bose*, D. Pandit, Indian Institute of Technology, India G3_OS5_4 Factor influencing demand by public transport in Colombia. An econometric analysis D. Toro-Gonzalez¹, V Cantillo*², ¹Universidad Tecnológica de Bolívar, Colombia, ²Universidad			A Fraszczyk*, W. Weerawat, P. Kirawanich, Mahidol University, Thailand
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G3_OS5_2 Why does my bus suddenly become so crowded? The spillover effect of the elimination of three-in-one policy in Jakarta J Paundra*¹, J. van Dalen¹, L. Rook², W. Ketter³,¹, ¹Erasmus University, Netherlands, ²Delft University of Technology, Netherlands, ³University of Cologne, Germany G3_OS5_3 Heterogeneity in perception of service quality attributes of bus transit across various user categories- A case of Kolkata T Bose*, D. Pandit, Indian Institute of Technology, India G3_OS5_4 Factor influencing demand by public transport in Colombia. An econometric analysis D. Toro-Gonzalez¹, V Cantillo*², ¹Universidad Tecnológica de Bolívar, Colombia, ²Universidad			terminal
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G3_OS5_4 Factor influencing demand by public transport in Colombia. An econometric analysis D. Toro-Gonzalez¹, V Cantillo*², ¹Universidad Tecnológica de Bolívar, Colombia, ²Universidad			
D. Toro-Gonzalez ¹ , V Cantillo* ² , ¹ Universidad Tecnológica de Bolívar, Colombia, ² Universidad			
		G3_OS5_4	, , , , , , , , , , , , , , , , , , , ,
uei ivoi te, Colombia			D. Toro-Gonzalez ¹ , V Cantillo* ² , ¹ Universidad Tecnológica de Bolívar, Colombia, ² Universidad del Norte, Colombia
G3_OS5_5 Accessibility of the metropolitan bus transportation system in Belo Horizonte		G3_OS5_5	Accessibility of the metropolitan bus transportation system in Belo Horizonte
D Lessa*, C. Lobo, G. Miranda, G. Pinto, L. Cardoso,		_ _	
Universidade Federal de Minas Gerais (UFMG), Brazil	1	1	Universidade Enderal de Minas Carais (UENAC), Prazil





		G3 – OS6: Land Use and Transport Planning
		Room: VMCC14
		Session Chair: Benjamin Buettner
11:30-13:10	G3_OS6_1	WITHDRAWN
11.50-15.10	G3_OS6_2	Accessibility to postal services: a potential spatial accessibility analysis
		A Mercier*1, S. Souche- Le Corvec1, N. Ovtracht2, C. Borsenberger3, O. Vialaneix3,
		¹ University of Lyon, LAET, France, ² University of Lyon, CNRS, LAET, France, ³ Groupe La Poste,
		Direction des Relations Institutionnelles et de la Régulation, France
	G3_OS6_3	Understanding travel behavior through changes in urban form, preference, and life events: A longitudinal study
		B Adhikari*, A. Hong, L. Frank, <i>University of British Columbia, Canada</i>
	G3_OS6_4	Calibration of a simulation model of land-use dynamics and its transport implications.
	03_030_4	Case study: Bogotá and the region
		L Guzmán*, J. Peña, R. Cardona, <i>Universidad de los Andes, Colombia</i>
	G3_OS6_5	Incorporating CO ₂ emissions into accessibility analysis: development of an instrument for
		low carbon land use and transport planning
		J Kinigadner*, B Büttner*, G. Wulfhorst, <i>Technical University of Munich, Germany</i>
		Wednesday, 29 May 2019
		G3 – OS7: Urban Transport Planning
		Room: VMCC14
		Session Chair: Hana Bruhova Foltynova
11:30-13:10	G3_OS7_1	Strategic transport planning in cities: Roles and attitudes of key stakeholders and barriers to sustainable mobility
		H Brůhová Foltýnová*, E. Vejchodská, K. Rybová, <i>UJEP, Czech Republic</i>
	G3_OS7_2	Economic and environmental analysis of measures from a Sustainability Urban Mobility Plan in a small sized city
		C. Sampaio, E. Macedo, M Coelho*, J. Bandeira, <i>University of Aveiro, Portugal</i>
	G3_OS7_3	Planning induction based wireless charging locations in a road network for battery electric vehicles
		A Kumar* ¹ , H. Ngo ² , S Mishra* ² , ¹ University of Texas at San Antonio, USA, ² University of Memphis, USA
	G3_OS7_4	Identification of major latent variables influencing mode choice behaviour of non-work
		trips in medium sized cities
		S. Shaheem*, S. Sreelekshmi, National Transportation Planning and Research Centre, India
	G3_OS7_5	Examining social returns from urban transport infrastructure:Long-term consequences and
		varied interests at multiple scales
		J Lee*, J. Arts, F. Vanclay, University of Groningen, Netherlands
		G3 – OS8: Urban Transport Policy
		Room: VMCC14 Session Chair: Anthony May
4:30-16:10	G3_OS8_1	Big data and urban mobility: A policy making perspective
		P Pucci*, G. Vecchio, G. Concilio, <i>Politecnico di Milano, Italy</i>
	G3_OS8_2	Impact of car restrictive policies: A case study of Srinagar city in J&K state India A Pasha*1,2, R. Rastogi², M. Mir³, ¹National Highways Authority of India, India, ²IIT Roorkee,
		India, ³ National Institute of Technology Srinagar, India





	G3_OS8_3	The San Francisco transportation demand management ordinance: A tool for promoting sustainable travel options
		C Rivasplata*, San Jose State University, USA, San Francisco Municipal Transportation Agency, USA
	G3_OS8_5	The role of new mobility services in sustainable urban transport strategies A May*, G. Marsden, University of Leeds, United Kingdom
		G3 – OS9: Sharing Transport (1)
		Room: VMCC13 Session Chair: Maria Attard
16:30-18:10	G3_OS9_1	A review of regulations and media discourse on technology-enabled shared mobility in Canada
	G3_OS9_2	A. Ashraf, M Habib*, Dalhousie University, Canada Knowledge concepts for analytical purchase on mobility as a service and future research A. De Waal, M Vanderschuren*, University of Cape Town, South Africa
	G3_OS9_3	Bike sharing: Regulatory possibilities addressing problematic issues – Case study Vienna B Laa, G. Emberger*, Vienna University of Technology, Austria
	G3_OS9_4	The ride-sourcing industry: Status-quo and Outlook M Goletz*1, F. Bahamonde-Birke1,2, 1DLR Institute of Transport Research, Germany, 2TU Berlin, Germany
	G3_OS9_5	The technology behind a shared demand responsive transport system for a university campus
		M Attard*, M. Camilleri, A. Muscat, <i>University of Malta, Malta</i> G3 – OS10: Sustainable Transport Futures
		Room: VMCC14
		Session Chair: Anthony May
16:30-18:10	G3_OS10_1	How sustainable is the growth of mass transit system in developing countries – an Indian
		perspective E Bhaduri* ¹ , A. Goswami ¹ , R. Moeckel ² , ¹ IIT Kharagpur, India, ² TU, Germany
	G3_OS10_2	Promoting electric mobility through environmental zoning to reduce GHG emissions: a case
		for the city of Hamburg? H Flämig* ¹ , S. Lunkeit ¹ , K Rosenberger* ¹ , J. Wolff ² , ¹ Hamburg University of Technology, Germany, ² Free and Hanseatic City of Hamburg, Germany
	G3_OS10_3	When and where there should be dedicated lanes under mixed traffic of automated and human-driven vehicles for system-level benefits A Kumar*1, S Guhathakurta*2, S. Venkatachalam2, 1University of Texas at San Antonio, USA,
	G3_OS10_4	² Georgia Institute of Technology, USA Assessing impacts on the utility of both winter cycling and fair-weather cycling in Calgary J Hunt*, F. Sadeghpour, University of Calgary, Canada
	G3_OS10_5	The potential impacts of automated cars on urban transport: an exploratory analysis A May*1, S. Shepherd1, P. Pfaffenbichler2, G. Emberger3, 1 University of Leeds, United Kingdom, 2 University of Natural Resources and Life Sciences, Austria, 3 Technical University of Vienna, Austria
	G3_OS10_6	Evaluation of workplace mobility plans D Esztergár Kiss*, A. Aba, Budapest University of Technology and Economics, Hungary





	Thursday, 30 May 2019		
	G3 – OS11: Public Transport in Urban Areas (4) Room: VMCC13 Session Chair: Xianghao Shen		
09:30-11:10	G3_OS11_1	A stochastic optimization model for timetable design to reduce bus bunching S. Shafraz I. ¹ , M Manohar M* ² , G. Ramadurai ² , ¹ Indian Institute of Management Kozhikode, India, ² Indian Institute of Technology Madras, India	
	G3_OS11_2	Will the current public transport network in Birmingham support passengers disembarking HS2? S. Kaewunruen, P Rungskunroch*, U. Silva, <i>University of Birmingham, United Kingdom</i>	
	G3_OS11_3	Some strategies for improving performance of service quality of bus transport system in state capital Bhopal P Agarwal*, V Solanki*, P Dhakad*, V Malav*, Maulana Azad National Institute of Technology, India	
	G3_OS11_4	Revisiting waiting time modeling in transit studies – A critical review and suggested comprehensive approach M Ansari Esfeh*, S. Wirasinghe, S. Saidi, L. Kattan, University of Calgary, Canada	
	G3_OS11_5	How public transport subsidy policies in China affect the average passenger load factor of a bus line X Shen*, S. Feng, Harbin Institute of Technology., China	

	G4: Cultural and Social Issues in Transport		
	Monday, 27 May 2019		
		G4 – OS1: Travel & Activity Preferences	
		Room: VMCC21	
		Session Chair: Xianghao Shen	
14:30-16:10	G4_OS1_1	WITHDRAWN	
	G4_OS1_2	The effect of local foods competition to the number of visitors	
		K Arita*, S. Terabe, H. Yaginuma, N. Kang, K. Tanaka, <i>Tokyo University of Science, Japan</i>	
	G4_OS1_3	Influence of psychological factors in mode choice decision making: A structural equation modeling approach	
		R. Devika, M Harikrishna*, M. Anjaneyulu, National Institute of Technology Calicut, India	
	G4_OS1_4	Long-distance travel patterns of rail users in Hungary - Findings of the new countrywide Origin-Destination (O-D) Survey	
		V Oszter*, KTI Institute for Transport Sciences, Hungary	
	G4_OS1_5	The factors underlying decision-making of urban travel mode choices: an analysis based on 91	
		cities	
		A Dingil*1, Z. Stasiskiene1, K. Aalipour2, 1Kaunas University of Technology, Lithuania, 2Bologna University, Italy	





		Tuesday, 28 May 2019
		G4 – OS2: Gender Perspectives and Differences
		Room: VMCC21
		Session Chair: Geetam Tiwari
09:30-11:10	G4_OS2_1	Identifying paratransit service quality based on low-income working women's perception: A case study in Dhaka city F. Rahman, M Islam*, University of Asia Pacific, Bangladesh
	G4_OS2_2	Usage patterns of public transport as a starting point for thinking through gendered conceptualizations of Delhi M Campbell*1, T. Jain², ¹University of Leeds, United Kingdom, ²Monash University, Austria
	G4_OS2_3	Assessing and modelling perceived safety and comfort of women during ridesharing A. Meshram, P. Choudhary, N Velaga*, IIT Bombay, India
	G4_OS2_4	Gender differences in work trip generation: Evidences from Bangalore T Rahul* ¹ , T. Megha ² , M. Sreekumar ² , M. Kamath ² , A. Verma ³ , ¹ Indian Institute of Technology Ropar, India, ² Amrita School of Engineering, India, ³ Indian Institute of Science (IISc), Bangalore, India
	G4_OS2_5	A gendered perspective of the phenomenon of 'no travel to work' in Indian cities: A case study of Jaipur city A Ghate*, G. Tiwari, Indian Institute of Technology (IIT), India
		G4 – OS3: Inequality & Inclusion Room: VMCC21
		Session Chair: Juan Antonio Carrasco
11:30-13:10	G4_OS3_1	Mobility as capability: Understanding the livelihoods of tea plantation workers using the Capabilities Approach L Nunes*, B. Mella Lira, The Bartlett School of Planning, UCL, United Kingdom
	G4_OS3_2	Does income inequality matter for household transport expenditure? A look into different income distribution measures in rich countries. N Valenzuela Levi*, University of Cambridge, United Kingdom
	G4_OS3_3	Social exclusion, transport & austerity measures: When policy meets reality J Bridgman*, L. Fassam, M. Hills, University of Northampton, United Kingdom
	G4_OS3_4	Gender and income based variability in travel choices in Vishakhapatnam, India D Jain*1, G. Tiwari², ¹TERI School of Advanced Studies, India, ²IIT Delhi, India
		G4 – OS4: Accessibility & Mobility Cultures Room: VMCC21 Session Chair: Daniel Oviedo Hernandez
16:30-18:10	G4_OS4_1	Does industry type matter in measures of job accessibility? Explaining employment outcomes in the UK J Bastiaanssen*, D. Johnson, K. Lucas, University of Leeds, United Kingdom
	G4_OS4_2	Future trends in transport workforce based on demographic, behavioural, cultural and socioeconomic factors M. Pomoni ¹ , A. Laiou ¹ , C. Plati ¹ , G Yannis* ¹ , M. Loukea ² , E. Bekiaris ² , ¹ National Technical University of Athens, Greece, ² Hellenic Institute of Transport, Greece
	G4_OS4_3	The potential for personalized public transport solutions to enhance job seekers' access to employment sites T. Calvert, F. Crawford, G Parkhurst*, J. Parkin, University of the West of England, United Kingdom





G4_OS4_4	Trip generation study of a shuttle service system in a relocation site: A case in the Philippines M. Paringit, R. Catolos, A. Custodio, J. Layug, J. Uy, J. Galupino, P Lucero*, De La Salle University, Philippines
G4_OS4_5	Making the connections between human needs theories and the social exclusion approach to
	transport: A conceptual framework
	T Guimarães*, K. Lucas, P. Timms, University of Leeds, United Kingdom

	G5: Disaster Resilience in Transport			
	Monday, 27 May 2019			
	G5 – OS1: Disaster Resilience in Transport Room: VMCC21 Session Chair: Huapu Lu & Ashish Verma			
16:30-18:10	G5_OS1_2	Tsunami evacuation simulation considering road congestion and difference in evacuation means depending on household composition N Sugiki*, S. Kobayashi, K. Matsuo, Toyohashi University of Technology, Japan		
	G5_OS1_3	Comparing agent-based crowd simulation and numerical calculations in evacuation process (Valiasr Metro Station, Iran) S Gharavi*, K. Taghizadeh, University of Tehran, Iran, Islamic Republic of		
	G5_OS1_4	Integration of image processing and crowd simulation for understanding crowd dynamics in Kumbh Mela P. S. Karthika* ¹ , A. Verma* ¹ , S. Pal ² , ¹ Indian Institute of Science (IISc), India, ² Indian Institute of Technology, India		

	G6: Transport and Health		
	Monday, 27 May 2019		
	G6 –	OS1: The Health Impacts of Transport: Access, Safety and Data Issues	
		Room: VMCC22	
		Session Chair: Geetam Tiwari	
14:30-16:10	G6_OS1_1	Understanding how low-income communities gain access to healthcare services: A qualitative study in São Paulo	
		T Guimarães*, K. Lucas, P. Timms, University of Leeds, United Kingdom	
	G6_OS1_2	The 20mph speed limit policy in Bristol: Analysis of speed and collisions variations	
	G6_OS1_3	A Bornioli*, I. Bray, P. Pilkington, E. Bird, <i>University of the West of England, United Kingdom</i> Assessment of national information repository and database(s) for modelling health impacts of urban transport in India D. Jain ¹ , A Sharma* ² , N. Singh ² , G. Tiwari ² , M. Malayath ² , ¹ Teri School of Advanced Studies, India, ² Indian Institute of Technology Delhi, India	
	G6_OS1_4	Active and passive transport choice behaviour for school students and their exposure to different transportation modes S Chaudhry*, S. Elumalai, Indian Institute of Technology (Indian School of Mines), India	





TOPIC H: TRANSPORT IN DEVELOPING AND EMERGING COUNTRIES

H1: Transport Policy, Planning and Financing in Developing Countries

H1 – OS1: Transport Policy in Developing Countries Room: CE228 Session Chair: Justin S. Chang 14:30-16:10 H1_OS1_1 The impact of transportation on the economic development of Nigeria: The journey so far and the way forward P Onokala*1, C. Olajide², ¹University of Nigeria, Nigeria, ²University of Nigeria, Nsukka, Nigeria H1_OS1_2 Alternative approach to costing on Indian railways: Lnking outputs and expenses to activity centres R Manchala*1, S Sahu*2, ¹CRIS, India, ²NA, India

H1_OS1_3 Lessons learned from the experience of Indian policies towards sustainable transport systems

A Tufail*, J. S.Chang, Seoul National University, Korea, Republic of

H1_OS1_4	Strategic planning for sustainable transportation in developing countries: The role of
	vehicles
	S Abu Eisheh* ¹ , W. Kuckshinrichs ² , A. Dwaikat ¹ ,
	¹ An-Najah National University, Palestine, ² Forschungszentrum Juelich, Germany

H1 – OS2: Data and Travel Behavior in Developing CountriesRoom: CE228

Session Chair: Akimasa Fujiwara

Session Chair. Akimasa rujiwara		
16:30-18:10	H1_OS2_1	Investigating response, data sending, and completion rates of a smartphone-based travel survey conducted in Kabul, Afghanistan Q Zwak*1, A. Khalid², Y. Sato¹, T. Maruyama¹, ¹Kumamoto University, Japan, ²Ministry of Rural Rehabilitation and Development, Afghanistan
	H1_OS2_2	Does individual capability influence travel time expenditure? Mediation and moderation modeling approach T Ishikawa*, M. Chikaraishi, A. Fujiwara, H. T.A. Nguyen, <i>Hiroshima University, Japan</i>
	H1_OS2_3	Improvement of data sending rate and survey completion rate of smartphone-based travel surveys in two Afghanistan cities Q Zwak*, T. Maruyama, Kumamoto University, Japan
	H1_OS2_4	Interrelationships between mode choice and trip-chain choice decisions in the context of developing countries S. S. V. Subbarao*, S. N. V. Swaroop, R.S. Shekhar, <i>Mahindra Ecole Centrale, India</i>
	H1_OS2_5	Modelling pedestrian choice behaviour of crossing facility M Patra*, V. Perumal, K. Rao, IIT Bombay, India

Tuesday, 28 May 2019

H1 – OS3: Transport Financing in Developing Countries Room: CE228

Session Chair: Imran Muhammad

09:30-11:10	H1_OS3_1	Does financial penetration cause transportation and economic growth do financial
		penetration cause transportation and economic growth
		R Pradhan*1, R. Maradana ² , ¹ Indian Institute of Technology Kharagpur, India, ² Thiagarajar
		School of Management, Madurai, India





	H1_OS3_2	Can value capture fund public transport infrastructure in China? X Wang*1, I Muhammad*1, K Tsui*1, S Sturup*2, 1Massey University, New Zealand,
		² Department of Urban Planning and Design, Xi'an Jiaotong-Liverpool University, China
	H1_OS3_3	Feasibility of flexible term concession based real options in public private partnerships in Indian highway sector
		M Poulose*, A. Mahalingam, <i>Indian Institute of Technology Madras, India</i>
	H1_OS3_4	Understanding of traffic signs by drivers in the city of Manila, Philippines
		J. Fernandez ¹ , J. Salvador ² , M. Paringit ¹ , J. Galupino ² , P Lucero* ² , ¹ De La Salle University, Philippines, ² De La Salle University, Philippines
		H1 – OS4: Traffic and Safety in Developing Countries
		Room: CE228
		Session Chair: Maria Cecilia R. Paringit
11:30-13:10	H1_OS4_1	Modeling phone-use prevalence and risk assessment among long-haul truck drivers P Choudhary* ¹ , K. Mahajan ¹ , N. Velaga ¹ , A. Choudhary ² , R. Shankar ³ , ¹ Indian Institute of Technology, Bombay, India, ² Loughborough University, United Kingdom, ³ Indian Institute of Technology, Delhi, India
	H1_OS4_2	Investigating the relation between level of service and volume-to-capacity ratio at signalized
		intersections under heterogeneous traffic condition D Othayoth*, K. Rao, Indian Institute of Technology Bombay, India
	H1_OS4_3	Integrating auto-rickshaws with a BRT system: The role of safety perception L. Márquez¹, V Cantillo*², L. Macea³, ¹Universidad Pedagógica y Tecnológica de Colombia, Colombia, ²Universidad del Norte,
		Colombia, ³ Pontificia Universidad Javeriana de Cali, Colombia
		Wednesday, 29 May 2019
		H1 – OS5: Public Transport in Developing Countries Room: CE228
		Session Chair: Hans-Martin Niemeier
14:30-16:10	H1_OS5_1	Demand and driver supply implications of regular public transportation system for policy makers: A case study of Kandahar city, Afghanistan
		M Rahmat* ^{1,2} , S. Mizokami ² , ¹ Kandahar University, Afghanistan, ² Kumamoto University, Japan
	H1_OS5_2	Internal benchmarking of inter-city public bus operators in India A Bhatt*1, V. Vasudevan2, S. Misra1,
		¹ Indian Institute of Technology Kanpur, India, ² University of Alaska Anchorage, USA
	H1_OS5_3	Identifying priority attributes for improving Ulaanbaatar bus services using the analytic hierarchy process B Enkhbayar*, J. S.Chang, Seoul National University, Korea, Republic of
	H1_OS5_4	The impacts of ownership, competition and regulation on the performance of the central ports of India
		S Kumar*, H. Niemeier, Hochschule Bremen City University of Applied Sciences, Germany
		Thursday, 30 May 2019
		H1 – OS6: Social Issues of Transport in Developing Countries
		Room: CE228 Session Chair: Carlos Alberto Moncada
09:30-11:10	H1_OS6_1	How priorities of men and women for choosing railway transportation differ? A case study M. Khadem Sameni, A Barzegar Tilenoie*, Iran University of Science and Technology, Iran, Islamic Republic of





	Local level travel and travail narratives: A review of the King Sabatha Dalindyebo (KSD) integrated rapid transport plan household surveys J Chakwizira* ¹ , M. Mashiri ² , B. Mpondo ³ , ¹ University of Venda, South Africa, ² Gwarajena TRD, South Africa, ³ SAFIRI (PVT) LTD, South Africa
	Social exclusion related to mobility in Villavicencio from a gender perspective J Díaz Correa*, C. Moncada, D. Escobar, Universidad Nacional de Colombia, Colombia

H2: Ir	nfrastruct	ure Operation and Traffic Management in Developing Countries			
	Monday, 27 May 2019				
	H2 – OS1: In	frastructure Operation and Traffic Management in Developing Countries - 1 Room: CE233 Session Chair: Aseem Kinra			
16:30-18:10	H2_OS1_1	Framework for logistics performance index construction using DEA: an application for soybean haulage in Brazil I Costa Melo*, T. Péra, P. Alves Junior, D. Rebelatto, J. Caixeta-Filho, University of São Paulo, Brazil			
	H2_OS1_2	Identifying infrastructure risk factors in Africa A. Theofilatos, K. Folla, A. Laiou, S. Mavromatis, G Yannis*, National Technical University of Athens, Greece			
	H2_OS1_3	Policy dilemma: Road pricing or road space rationing – Evidence from Santiago, Chile D Chakraborty*, University of California, Davis, USA			
	H2_OS1_4	The city-airport connection, implications for urban transport planning in motorcycle-dominated cities T. Thi My Thanh* ¹ , A. Minh Ngoc ² , ¹ University of Transport Technology, Vietnam, ² University of Transport and Communication, Vietnam			
	•	Tuesday, 28 May 2019			
	H2 – OS2: In	frastructure Operation and Traffic Management in Developing Countries - 2 Room: CE233 Session Chair: Keping Li			
11:30-13:10	H2_OS2_1	A descriptive study of vehicle-type-specific headways under mixed traffic R Roy*, P Saha*, Indian Institute of Engineering Science and Technology, India			
	H2_OS2_2	Analysis of level of service at manually operated toll plaza using fuzzy logic approach Y Navandar*1, D. Othayoth ² , A. Dhamaniya ¹ , D. Patel ¹ , ¹ SVNIT, India, ² IIT Bombay, India			
	H2_OS2_3	A quick method for estimation of level of service at manually operated tollbooths under mixed traffic conditions Y. Navandar, A Dhamaniya*, D. Patel, SVNIT, India			
	H2_OS2_4	Capacity analysis of escalators installed at metro rail stations in India D Kahali*, R. Rastogi, Indian Institute of Technology Roorkee, India			
	H2_OS2_5	Comparative analysis of saturation flow using various PCU estimation methods S. Mondal ¹ , V. Arya ¹ , A Gupta* ¹ , S. Gunarta ² , ¹ IIT (BHU) Varanasi, India, ² Institute of Road Engineering, Indonesia			





	H2 – OS3: In	frastructure Operation and Traffic Management in Developing Countries - 3
		Room: CE233
		Session Chair: Ashish Verma
16:30-18:10	H2_OS3_1	Assessing the user perception & quality of bus service in Navi Mumbai- Application of SEM technique A. Chepuri ¹ , L. Melville ¹ , S Arkatkar* ² , G. Joshi ² , S. Pulugurtha ³ , ¹ SVNIT, India, ² SVNIT, India, ³ UNCC, USA
	H2_OS3_3	Identifying user satisfaction level of road services: A focus on Rajshahi city bypass road, Bangladesh M Hasan*, A. Alam, A. Mim, A Das*, Rajshahi University of Engineering and Technology, Bangladesh
	H2_OS3_4	Fuzzy logic based user perceived level of service of signalized intersection under heterogeneous traffic condition D Othayoth*, K. Krishna Rao, IIT BOMBAY, India
	H2_OS3_5	Identifying critical mid-block locations for incidents in an urban road network K Ghosh*, B Maitra*, Indian Institute of Technology Kharagpur, India
'	H2 – OS4: In	frastructure Operation and Traffic Management in Developing Countries - 4 Room: CE233 Session Chair: Velmurugan S
14:30-16:10	H2_OS4_1	Traffic impact assessment for sustainable development in urban areas P. Seetharaman* ¹ , S. Velmurugan* ¹ , N. Kalsi* ² , R. Kayitha* ¹ , M. Erramapalli* ¹ , S. Kannan* ¹ , CSIR Central Road Research Institute, India, Delhi Metro Rail Corporation, India
	H2_OS4_2	Crowd dynamics of a rural group in a mass religious gathering: A case study of kumbha mela – 2016, India A Rai*1, A. Verma1, P. Chakroborty2, Indian Institute of Science, India, Indian Institute of Technology, India
	H2_OS4_3	Development of adjustment factors for Robertson's platoon dispersion model P. P S ¹ , A Rajamma* ² , ¹ College of Engineering Trivandrum, India, ² Government College of Engineering, India
		Wednesday, 29 May 2019
	H2 – O <u>S5: I</u> n	frastructure Operation and Traffic Management in Developing Countries - 5
		Room: CE233 Session Chair: Dimantha De Silva
14:30-16:10	H2_OS5_1	Average queue length estimation using crowdsourced travel time data under heterogenous traffic conditions S. Kumarage, D De Silva*, S. Bandara, <i>University of Moratuwa, Sri Lanka</i>
	H2_OS5_2	Implementation of camera based speed management in India M Khan*, B Maitra*, Indian Institute of Technology Kharagpur, India
	H2_OS5_4	Characteristics of vehicular lateral shifts in non-lane-disciplined traffic stream D Pal*1, S. Venthuruthiyil², M. Chunchu³, ¹NERIST, India, ²IIT, India, ³IIT, India





		H5: Urban Transport in Developing Countries
		Monday, 27 May 2019
		H5 – OS1: ITS
		Room: CE233
		Session Chair: Ali Huzayyin
14:30-16:10	H5_OS1_1	Public transport occupancy estimation using WLAN probing and mathematical modeling T. Vieira ¹ , P Almeida* ¹ , M. Meireles ² , R. Ribeiro ¹ , ¹ CEFET-MG, Brazil, ² Institute of Mathematical Sciences and Informatics, PUC-Minas, Brazil
	H5_OS1_2	Analysis of bus travel time variability using automatic vehicle location data M Harsha* ¹ , R. H Mulangi ¹ , H. Dinesh Kumar ² , ¹ National Institute of Technology Karnataka, India, ² Intelligent Transport System, Mysore, India
	H5_OS1_3	A Fuzzy logic approach to analyze the effect of metro corridor on middle income housing in Mumbai A Jana* ¹ , R. Bardhan ^{1,2} , N. Velaga ¹ , A. Jain ¹ , S. Sangoi ¹ , ¹ Indian Institute of Technology Bombay, India, ² Stanford University, USA
	H5_OS1_4	Is India ready for the autonomous vehicles?
		S Swamy*1,2, S Sharma*1, 1CEPT University, India, 2Centre of Excellence, Urban Transport, India
		H5 – OS2: Urban Development
		Room: CE238
	ı	Session Chair: Varameth Vichiensan
14:30-16:10	H5_OS2_1	Need for sustainable transport and mixed land use: Findings from the 2008 and 2018 travel surveys C Hanni*, N. Kalyanpad, K. V. Krishna Rao, Indian Institute of Technology Bombay, India
	H5_OS2_2	Measuring the impact of objective and subjective built environment factors on access mode choice to metro stations A Gupta*, G Bivina*, M. Parida, Indian Institute of Technology, Roorkee, India
	H5_OS2_3	Parking behavior and the possible impacts on travel alternatives in motorcycle-dominated
		cities T Thi My Thanh* ¹ , A. Minh Ngoc ² , ¹ University of Transport Technology, Vietnam, ² University of Transport and Communication, Vietnam
	H5_OS2_4	A comparative study of pedestrian movement behavior over foot over bridges under similar land use type A Banerjee*, A. Maurya, Indian Institute of Technology Guwahati, India
	H5_OS2_5	Motorists' preferences toward parking space management in the capital city of Ulaanbaatar A. Mares ¹ , O. Demberel ² , F Heinitz* ¹ , ¹ FH Erfurt University of Applied Sciences, Germany, ² Ulaanbaatar Municipial Traffic Control Center, Mongolia
		H5 – OS3: Urban Accessibility
		Room: CE212
		Session Chair: Yaser Hatamzadeh
14:30-16:10	H5_OS3_2	Mode choice analysis using web-based revealed preference questionnaire, stated preference experiment and google maps API N Kalyanpad*, C Hanni*, K. V. Krishna Rao, Indian Institute of Technology Bombay, India
	H5_OS3_3	Analysis of the effects of the Transport Network Companies (TNCs): Travel behavior and accessibility in Bogotá, Colombia D Oviedo*1, O. Sabogal¹, D. Perez², I. Granada²,
		¹ University College London, United Kingdom, ² Inter-American Development Bank, USA





	H5_OS3_4	Beyond travel to work: Non-work accessibility, capabilities and transport equity in Bogotá D Oviedo*1, L. Guzman²,
		¹ University College London, United Kingdom, ² Universidad de los Andes, Colombia
	H5_OS3_5	Push versus pull factors for household car ownership in developing countries: A case study of Accra
		S Adjei Appiah*, G. Marsden, J. Anable, <i>University of Leeds, United Kingdom</i>
		H5 – OS4: Urban Mobility
		Room: CE238
		Session Chair: M. Shafiq-Ur Rahman
16:30-18:10	H5_OS4_1	Travel pattern and mobility constraints of disabled people: A case study on Dhaka city, Bangladesh
		M Shafiq Ur Rahman*, <i>Jahangirnagar University, Bangladesh</i>
	H5_OS4_2	Drivers and barriers to sustainable mobility: Lessons learnt from GEF projects in Russia, Central Asia and Caucasus
		A. Aparicio*, Technical University Madrid (UPM), Spain
	H5_OS4_3	Evolution of self-organisation mechanisms of a new informal mode of transportation: case study of two municipalities in West Bengal, India
		S Chaudhuri*, Indian Institute of Science and Technology, India
		H5 – OS5: Transit Service
		Room: CE212
		Session Chair: Rose Luke
16:30-18:10	H5_OS5_1	Strategies for improving satisfaction level of public transport users
		P Agarwal* ¹ , V Solanki* ² , S Bhatia* ³ , T Jain* ³ , ¹ MANIT, India, ² MANIT, India, ³ Rajasthan Technical University, India
	H5_OS5_2	User perceptions of public transport service quality S Sinha*1, H. Swamy1, K. Modi2, 1CEPT University, India, 2ATKINS, India
	H5_OS5_3	Public transport users' WOM: an integration model of the theory of planned behavior, customer satisfaction theory, and personal norm theory
		I Bakti*, S. Sumaedi, T. Rakhmawati, M. Yarmen, T. Widianti, N. Astrini,
		Indonesian Institute of Sciences, Indonesia
	HE OSE 4	An analysis of the quality of public transport in Johannesburg, South Africa using an adapted
	H5_OS5_4	SERVQUAL model
		R Luke*, G. Heyns, <i>University of Johannesburg, South Africa</i>
	H5_OS5_5	Determination of service quality attributes based on user perception for paratransit services
		in developing country like India
		D. Sharma, D. Pandit, T Bose*, <i>Indian Institute of Technology, India</i>
		Tuesday, 28 May 2019
		H5 – OS6: Traffic Operation
		Room: CE238
		Session Chair: Suvin P. Venthuruthiyil
09:30-11:10	H5_OS6_1	Empirical investigation of the existence of class-wise fundamental diagram for a
		heterogeneous traffic stream
		S P Venthuruthiyil* ¹ , S. Tiwari ¹ , P. J. Choudhury ² , J. Zaman ² , M. Chunchu ¹ , ¹ Indian Institute of Technology Guwahati, India, ² Assam College of Engineering, Guwahati, India





	H5_OS6_2	Criteria for temporal aggregation of the traffic data from a heterogeneous traffic stream S P Venthuruthiyil* ¹ , A. R. Karmakar ² , S. Y. Islam ² , M. Chunchu ¹ , ¹ Indian Institute of Technology Guwahati, India, ² Assam College of Engineering, Guwahati, India
	H5_OS6_3	Capacity estimation: A study of empirical data under heterogeneous traffic conditions N Jayaratne*, H. Pasidu, <i>University of Moratuwa, Sri Lanka</i>
	H5_OS6_4	The effects of odd-even traffic restriction policy during Asian games 2018 in Jakarta H Prakoso*1, M. Wicaksono1, D. Setiawan2, 1Greater Jakarta Transport Authority, Indonesia, 2Indonesian National Police Traffic Corps, Indonesia
		H5 – OS7: Safety & Security
		Room: CE238
		Session Chair: Sik Sumaedi
16:30-18:10	H5_OS7_1	Driver behaviour at signalised intersections: Consequences of eating and drinking during driving
		P Choudhary*, N. Velaga, IIT Bombay, India
	H5_OS7_2	Identification of contributing factors in vehicle pedestrian crashes in Chennai using multiple correspondence analysis
		P Natarajan*, S. Sivasankaran, V. Balasubramanian,
		Indian Institute of Technology, Madras, India
	H5_OS7_3	Identifying patterns of pedestrian crashes in urban metropolitan roads in India using
	1.10_007_0	association rule mining
		S Sivasankaran*, P. Natarajan, V Balasubramanian*,
		Indian Institute of Technology, Madras, India
	H5_OS7_4	Intention to use helmet with quality standard label: An integration model of hierarchy of
		effect theory and information signaling theory
		T. Rakhmawati, S Sumaedi*, I. Bakti, T. Widianti, S. Damayanti, Research Center for Quality
		System and Testing Technology Indonesian Institute of Sciences, Indonesia
	H5_OS7_5	Personal security and daily travel in sub-Saharan Africa: The case of Dakar
		L. Diaz Olvera, D. Plat, P Pochet*, <i>LAET - Université de Lyon, France</i>
		Wednesday, 29 May 2019
		H5 – OS8: Public Transport
		Room: CE238
		Session Chair: Qian Ye
14:30-16:10	H5_OS8_2	Impact of aerial cable car in low-income area in Medellín, Colombia
		M Matsuyuki* ¹ , S. Okami ² , F. Nakamura ¹ , I. Sarmiento-Ordosgoitia ³ , ¹ Yokohama National
		University, Japan, ² Yachiyo Engineering Co., Ltd, Japan, ³ Universidad Nacional de Colombia,
		Colombia
	H5_OS8_3	Analysis of user perception towards a key set of attributes related to Bicycle-Metro
		integration: A case study of Hyderabad,India
		J. Panchal ¹ , B Majumdar ^{*1} , V. Ram ¹ , D Basu ^{*2} ,
	UE 000 1	¹ BITS Pilani Hyderabad Campus, India, ² IIT Bhubaneswar, India
	H5_OS8_4	A scenario based analysis of car sharing alternatives for Mumbai
	UE 000 5	D Das*, P. Kalbar, N. Velaga, Indian Institute of Technology Bombay, India
	H5_OS8_5	Strategies for improving impacts of alternate public transport system on Indian cities P Agarwal*1, V Solanki*1, T Jain*2, S Bhatia*2,
		¹ MANIT, India, ² Rajasthan Technical University, India
	<u> </u>	IMPARTI, ITIGIG, TOJOSTIGIT TECHNICAL OTIVETSITY, ITIGIG





		H5 – OS9: Transport Policy
		Room: CE212
		Session Chair: Ashish Verma
14:30-16:10	H5_OS9_1	Sustainable urban transport policies to improve public transportation system: A case study of Bengaluru, India H Vajjarapu*1, O Karmarkar*1,2, A Verma*1, 1 Indian Institute of Science Bangalore, India, 2 Indian Institute of Technology Bombay, India
	H5_OS9_2	A walking mode choice analysis of school trips across morning and afternoon period students in Rasht, Iran: Does it matter? Y Hatamzadeh*, Amirkabir University of Technology, Iran, Islamic Republic of
	H5_OS9_3	Mass transit = mass benefits? D Oviedo*¹, A. Ojeda², J. Arellana², J. Davila¹, V. Cantillo², ¹University College London, United Kingdom, ²Universidad del Norte, Colombia
	H5_OS9_4	Political economy of high-speed rails in India A. Aleem*, Shiv Nadar University, India, Indian Institute of Technology, India
		H5 – OS10: Transit Quality and Performance
		Room: CE238 Session Chair: Iderlina Mateo-Babiano
16:30-18:10	H5_OS10_1	Exploring the affect of mixed traffic zones on BRTS: A case study on Ahmedabad BRTS A Kakarla*, Nihon university, Japan, IIT Hyderabad, India
	H5_OS10_2	Is there a gender dimension in transport? Examining female student's decision making in the context of climate-aggravated disruptions A Fillone*1, I. Mateo-Babiano², 1De La Salle University, Philippines, 2University of Melbourne, Australia
	H5_OS10_3	Young women's perception of safety in public buses: A study of two indian cities (Ahmedabad and Bangalore) M. Verma ¹ , N. Rodeja ² , M. Malayath ³ , A Verma* ⁴ , ¹ MS Ramaiah Institute of Management, India, ² , CEPT University, Ahmedabad, India, ³ Indian Institute of Technology, Delhi, India, ⁴ Indian Institute of Science, Bangalore, India
	H5_OS10_4	A comprehensive methodology for comparative performance evaluation of public transport systems in urban areas J. Gurjar ^{1,2} , P Agarwal* ¹ , P. Jain ¹ , ¹ MANIT Bhopal, India, ² Government Engineering College Rewa, India
	H5_OS10_5	Improving urban mobility-towards seamless & integrated multimodal transit stations P Kansal*, P. Kataria, RITES, India
		H5 – OS11: Transport Policy and Analysis Room: CE212 Session Chair: M. Shafiq-Ur Rahman
16:30-18:10	H5_OS11_1	A rational approach for improving travel impacts of public transport system in Indian cities P Agarwal*1, V. Solanki², V. Malav¹, ¹MANIT, India, ²MANIT, India
	H5_OS11_2	Projection of private vehicle stock in India up to 2050 N Singh*, T. Mishra, R. Banerjee, Indian Institute of Technology Bombay, India
	H5_OS11_3	International assessment of private motorization dynamics at the metropolitan scale M Trouve*, G. Lesteven, F. Leurent, Université Paris-Est, LVMT, Ecole des Ponts ParisTech, France
	H5_OS11_4	Alternative transport in México city S Barrera Berrón*, E. Segura Perez, A. Wellens Purnal, Universidad Nacional Autonoma de México, Mexico





	Modelling induced travel demand in a developing country: Evidence from Dhaka,
	Bangladesh
	M. Rahman ¹ , D. Baker ² , M Rahman ^{*1} ,
	¹ Jahangirnagar University, Bangladesh, ² Queensland University of Technology, Australia

	TO	PIC I: INFRASTRUCTURE DESIGN AND MAINTENANCE
		I1: Highway Design and Materials
		Monday, 27 May 2019
		I1 – OS1: Performance Characterization of Bituminous Mixes - 1
		Room: LC201
		Session Chair: Prof. Mahabir Panda
14:30-16:10	I1_OS1_1	Using polymer and rubber modified asphalt mixtures on airfield pavements. Case study: International Airport Ernesto Cortissoz, Barranquilla, Colombia. L Fuentes*, Universidad del Norte, Colombia
	I1_OS1_2	Investigation of durability of open graded friction courses D Bamunuarachchi*, W. Mampearachchi, University of Moratuwa, Sri Lanka
	I1_OS1_3	Use of recycled material in WMA- future of greener road construction A Sharma*, P. Kumar, A. Walia, IIT, India
	I1_OS1_4	Influence of climate and traffic on the HMA rut-depth for India D Savio*, M. Nivitha, J. Krishnan, Indian Institute of Technology Madras, India
		Tuesday, 28 May 2019
		I1 – OS2: Performance Characterization of Bituminous Mixes - 2 Room: LC201 Session Chair: Umesh Chandra Sahoo
09:30-11:10	I1_OS2_1	Laboratory characterization of a cement grouted bituminous macadam made with Portland slag cement D. Mukherjee, U Sahoo*, Indian Institute of Technology Bhubaneswar, India
	I1_OS2_2	A case study on the evaluation of rubberised asphalt containing reclaimed asphalt pavement and setting up of possible guidelines M. Ananthan, R Rughooputh*, University of Mauritius, Mauritius
	I1_OS2_3	Utilization of Zycotherm as an admixture for bituminous road construction U Sharma*, A. Mor, A. Khatri, Punjab Engineering College (Deemed to be University), India
	I1_OS2_4	Influence of rest period on the fatigue response of bituminous mixture at low temperature P. Ayyar ¹ , L. S ² , P. Ajithkumar ³ , J Krishnan* ¹ , ¹ Indian Institution of Technology Madras, India, ² Anna University, India, ³ SRM Institute of Science and Technology, India
		I1 – OS3: Industrial Waste for Pavement Construction - 1
		Room: LC201 Session Chair: J. Murali Krishnan
11:30-13:10	I1_OS3_1	Influence of Acrylonitrile Butadiene Styrene (ABS) on the physical, rheological and mechanical properties of bitumen binder P. K. Singh*, S. K. Suman*, M. Kumar, National Institute of Technology Patna, India
	I1_OS3_2	Rheological and mechanical properties of bauxite residue as hot mix asphalt filler R. Choudhary, A Kumar*, G. Rahman, Indian Institute of Technology Guwahati, India





	I1_OS3_3	Assessment of strength characteristics of bituminous concrete modified using HDPE A Khan*, S. Jain, Indian Institute of Technology, Roorkee, India
	I1_OS3_4	Performance evaluation of asphalt concrete mixes having copper industry waste as filler J. Choudhary, B. Kumar, A Gupta*,
		Indian Institute of Technology (Banaras Hindu University), Varanasi, India
	I1_OS3_5	Eco-friendly paving materials using waste PET and reclaimed asphalt pavement A Sreeram*1, Z. Leng1, R. Padhan1, X. Qu2,
		¹ Hong Kong Polytechnic University, Hong Kong, ² RWTH Aachen University, Germany
		I1 – OS4: Industrial Waste for Pavement Construction - 2
		Room: LC201
		Session Chair: Umesh Chandra Sahoo
16:30-18:10	I1_OS4_1	Performance evaluation of forage ash stabilized shale soil for effective use in flexible pavement
		O Fadamoro* ^{1,2} , I. Oyediran ³ , ¹ Academy of Scientific and Innovative Research (AcSIR), India, ² CSIR-Central Road Research Institute, India, ³ University of Ibadan, Nigeria
	I1_OS4_2	Strength characteristics of concrete produced with aluminium dross as partial replacement for portland pozzolana cement
		Panditharadhya, B. J.*, R. H Mulangi, R. A U, National Institute of Technology Karnataka, India
	I1_OS4_3	A study on initial setting time and the mechanical properties of AASC using the PS ball as fine aggregate A Talkeri*, A. Shankar, NITK Surathkal, India
	I1_OS4_4	Feasibility assessment of the use of basic oxygen furnace slag in open graded asphalt courses S Pathak*, R. Choudhary, A. Kumar, D. Damena, <i>Indian Institute of Technology Guwahati, India</i>
	I1_OS4_5	Utilization of plastic waste in bitumen mixes for flexible pavement R Damgir* ¹ , S. Hake ² , P Awasarmal* ¹ , ¹ Government College of Engineering Aurangabad, India, ² Dr V V P COE, India
	1	Wednesday, 29 May 2019
		I1 – OS5: Design and Quality Evaluation Using Advance Tools
		Room: LC201
		Constant Charles No. 1 on Addition March addition
09:30-11:10		Session Chair: Nazimuddin Wasiuddin
09:30-11:10	I1_OS5_1	Horizontal road markings for human and machine vision T Burghardt* ¹ , H. Mosböck ² , A. Pashkevich ³ , M. Fiolić ⁴ , ¹ M. Swarovski GmbH, Austria, ² Swarco AG, Austria, ³ Politechnika Krakowska, Poland, ⁴ University of Zagreb, Croatia
09:30-11:10	I1_OS5_1 I1_OS5_2	Horizontal road markings for human and machine vision T Burghardt* ¹ , H. Mosböck ² , A. Pashkevich ³ , M. Fiolić ⁴ , ¹ M. Swarovski GmbH, Austria, ² Swarco
09:30-11:10		Horizontal road markings for human and machine vision T Burghardt* ¹ , H. Mosböck ² , A. Pashkevich ³ , M. Fiolić ⁴ , ¹ M. Swarovski GmbH, Austria, ² Swarco AG, Austria, ³ Politechnika Krakowska, Poland, ⁴ University of Zagreb, Croatia Microstructural characteristics of bituminous mix using X-ray CT
09:30-11:10	I1_OS5_2	Horizontal road markings for human and machine vision T Burghardt*1, H. Mosböck2, A. Pashkevich3, M. Fiolić4, 1M. Swarovski GmbH, Austria, 2Swarco AG, Austria, 3Politechnika Krakowska, Poland, 4University of Zagreb, Croatia Microstructural characteristics of bituminous mix using X-ray CT S Jena, B. Pathi, M. Panda*, NIT Rourkela, India Continuous and detailed measurements of road bearing capacity at 80 km/h
09:30-11:10	I1_OS5_2 I1_OS5_3	Horizontal road markings for human and machine vision T Burghardt*1, H. Mosböck2, A. Pashkevich3, M. Fiolić4, 1M. Swarovski GmbH, Austria, 2Swarco AG, Austria, 3Politechnika Krakowska, Poland, 4University of Zagreb, Croatia Microstructural characteristics of bituminous mix using X-ray CT S Jena, B. Pathi, M. Panda*, NIT Rourkela, India Continuous and detailed measurements of road bearing capacity at 80 km/h K Jensen*, Greenwood Engineering A/S, Denmark Overlay design of low volume roads using Dynamic Cone Penetrometer - a review in Indian
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09:30-11:10 16:30-18:10	I1_OS5_2 I1_OS5_3	Horizontal road markings for human and machine vision T Burghardt*1, H. Mosböck2, A. Pashkevich3, M. Fiolić4, 1M. Swarovski GmbH, Austria, 2Swarco AG, Austria, 3Politechnika Krakowska, Poland, 4University of Zagreb, Croatia Microstructural characteristics of bituminous mix using X-ray CT S Jena, B. Pathi, M. Panda*, NIT Rourkela, India Continuous and detailed measurements of road bearing capacity at 80 km/h K Jensen*, Greenwood Engineering A/S, Denmark Overlay design of low volume roads using Dynamic Cone Penetrometer - a review in Indian scenario W K C*, S Baby*, T. John, National Transportation Planning and Research Center, India 11 – OS6: Characterization of Subgrade for Highways





	I1_OS6_3	Evaluation of cement treated reclaimed asphalt pavement and recycled concrete pavement bases C Sarella*, A Boyina*, A Singh*, S. Shankar, National Institute of Technology Warangal, India
		Thursday, 30 May 2019
		I1 – OS7: Asphalt Binder Characterization Room: LC201 Session Chair: Nazimuddin Wasiuddin
09:30-11:10	I1_OS7_1	Rheological characterization of Nanocomposite modified asphalt binder I. Mahali, U Sahoo*, Indian Institute of Technology Bhubaneswar, India
	I1_OS7_2	Life cycle assessment of modified asphalt and recommendations for policy guidelines- A case study of a small island developing state A. Veeramah, R Rughooputh*, University of Mauritius, Mauritius
	I1_OS7_3	A novel method for polymer content determination in asphalt binders and emulsions R. Hossain, N Wasiuddin*, Louisiana Tech University, USA
	I1_OS7_4	Understanding the short-term aging of warm mix asphalt using rolling thin film oven S. Arafat, N Wasiuddin*, Louisiana Tech University, USA
	I1_OS7_5	Estimation of binder quantity in a binary blend of asphalt binders using FTIR B Bora*, A. Das, Indian Institute of Technology Kanpur, India

		I2: Infrastructure management	
	Monday, 27 May 2019		
	I2 – OS1: Policy and Design Room: LC202 Session Chair: Shriniwas Arkatkar		
14:30-16:10	I2_OS1_1	An assessment towards identifying improvement needs of urban bus stop infrastructure: Knowledge gained from Bhubaneswar D Basu*1, S Roy*1, S. Roy Maitra², B. Bandhu Majumdar³, ¹India Institute of Technology Bhubaneswar, India, ²India Institute of Technology Kharagpur, India, ³Birla Institute of Technology and Science, Pilani Hyderabad Campus, India	
	I2_OS1_2	Fast charging stations with stationary batteries- An economic comparison of fast charging at highways and in cities S. Funke ¹ , P Jochem* ² , S. Ried ² , T. Gnann ¹ , ¹ Fraunhofer Institute for Systems and Innovation Research (ISI), Germany, ² Karlsruhe Institute of Technology (KIT), Germany	
	I2_OS1_3	Exploratory study on approaches for traffic count prediction; using toll-way traffic count S. VB ¹ , S Arkatkar* ¹ , L. Vanajakshi ² , ¹ SVNIT, India, ² IIT, India	
	I2_OS1_4	Analysis of driver behavior at intersection to develop guidelines for roadway geometric design B Nath*1, P Sahu*1, A Maji*2, H Roh*3, 1Birla Institute of Technology and Science Pilani, India, 2Indian Institute of Technology Bombay, India, 3City of Regina, Canada	
		Tuesday, 28 May 2019	
		I2 – OS2: Infrastructure Analysis and Evaluation Room: LC202 Session Chair: Debasis Basu	
09:30-11:10	I2_OS2_1	Pavement maintenance considering traffic accident costs R. Justo-Silva, A Ferreira*, University of Coimbra, Portugal	





	12_OS2_2	An evaluation of in-service infrastructural facilities of walk-access feeder paths to urban local bus stops
		S Roy*, D Basu*, Indian Institute of Technology Bhubaneswar, India
	12_OS2_3	Passenger satisfaction towards metro infrastructures, facilities and services
		Y.Q. Saw ¹ , D Dissanayake* ¹ , F. Ali ² , T. Bennett ¹ ,
		¹ Newcastle University, United Kingdom, ² National Defence University, Malaysia
	12_OS2_4	Critical Analysis of "Smart Cities Mission" in India: The Issues and challenges in its
		implementation
		S. Dixit ^{1*} , S. Singh ² , K. Sharma ¹
		¹ Amity University - Noida, India. ² K R Mangalam University Gurgaon, India
	12_OS2_5	The delay factor of road maintenance against vehicle operating cost
•		D Iskandar*, S. P. Hadiwardoyo, R. J. Sumabrata, <i>Universitas Indonesia, Indonesia</i>
		I2 – OS3: Pavement Analysis and Management
		Room: LC202
		Session Chair: Hadunneththi Pasindu
11:30-13:10	I2_OS3_1	Analytical evaluation of impact of groove deterioration on runway frictional performance H Pasindu*, University of Moratuwa, Sri Lanka
	12_OS3_2	Debonding detection in asphalt pavements using infrared thermography
		V Vyas*, V. Patil, A. Singh, A. Srivastava, BITS Pilani, India
	12_OS3_3	Analysis of the flexible pavement using falling weight deflectometer for Indian national
		highway road network
		A Singh*, A. Sharma, A. Singh, T Chopra*,
		Thapar Institute of Engineering and Technology, India
		12 – OS4: Project Planning
		Room: LC202
		Session Chair: Swapnil Garg
16:30-18:10	I2_OS4_1	Few ways to succeed, many ways to fail: Asymmetrical performance of Indian highway PPP
		projects
		S Garg*, Indian Institute of Management Indore, India
	12_OS4_2	Sustainability in PPPs: Bid selection model for highways using ANP
		T Dolla*, B. Laishram, Indian Institute of Technology Guwahati, India
	12_OS4_3	Developing some fuzzy modules for finding risk probabilities in Indian PPP projects
		P Baruah* ¹ , M. Kakati ² , ¹ IIIT Guwahati, India, ² Gauhati University, India
	12_OS4_4	Transportation infrastructure protection planning against sea level rise: Analysis using
		operational landscape units
		J Suh*, A Tcheukam*, S Madanat*, New York University Abu Dhabi, UAE
	12_OS4_5	The potential and use of past performance in Swedish public procurement of transport
		infrastructure
		J Nyström*, A. Vigren, Swedish National Road and Transport Research Institute (VTI), Sweden