

UTSG 50th Annual Conference

UCL, London, 3-5 January 2018

Programme (Draft)

(1.4c)

12:30-13:15 Registration and lunch

13:15 - 13:30

Session 1

Opening welcome

13:30 - 14:15

Plenary

14:20 - 15: 50

Session 2

New Technology

Accessibility

Traffic management

Freight

Farah Alkhalisi

Stephen Dixon
(Smeed)

Lin Zhu

Aditya Tafta Nugraha

University of Southampton

University of Leeds

Imperial College London

University of Southampton

Paper presentations

56 Digital media: a pathway technology in the electromobility transition?

73 The development of a job accessibility index to support ex post evaluation of employment impacts in previously isolated or disconnected regions now connected to the rail network

39 Automated Early Detection of Congestion in Urban Road Networks: A Deep Learning Approach

20 A modelling framework of land-use and transport interaction to assess co-evolution of port and urban development

Francesco Manca

Beatriz Mella Lira

Bo Gao

Dave Milne

Imperial College London

UCL

University of Southampton

University of Leeds

51 Investigating social influence mechanisms and their inclusion in discrete choice models: recent findings on electric vehicle purchase preferences

53 Exploring health-related inequalities on private, public and active transport users in Santiago de Chile

61 Developing an open source benchmarking platform for intersection control algorithms

35 Developing a model for optimising route & time period choice for improving environmental efficiency of multi-stage truck journeys

Chih-Kai Yang

Jeroen Bastiaanssen

Joel Dodsworth
(Smeed)

MD Habibur Rahman

UCL

University of Leeds

University of Leeds

Liverpool John Moores University

52 A cross-sectional analysis of Electric Vehicle uptake across countries

80 The impact of poor accessibility and deprived neighbourhoods on youth employment outcomes

88 Optimizing Isolated Signal Control using V2I and Vehicle Classification Information - A Hybrid Model

82 Transport capacity improvement by reducing empty container truck trips: Reengineering the container truck hauling process with the collaboration of the logistic companies in Bangladesh

15:50 - 16:20

Tea & coffee

16:20- 17:50

Paper presentation

19:30
Dinner

Session 3	Economics	Public Transport	Mobility as a Service	Modal Analysis
	Steven Melia	Bipashyee Ghosh	Caitlin Cottrill	Jennifer Mindell
	University of the West of England	University of Sussex	University of Aberdeen	UCL
	7 Does Transport Investment Really Boost Economic Growth?	22 Towards a theory of Æœregime transformation - Case study of urban mobility socio-technical regime in Kolkata, India	16 Mobility as a Service in the context of the General Data Protection Regulation	6 Road travel fatalities vary more by age and sex than travel mode
	Giulia Rado	Maria Attard	Jillian Anable	Kate Pangbourne
	UCL	University of Malta	University of Leeds	University of Leeds
	47 Designing a value chain model and identifying the breadth and price of service bundles for Mobility as a Service	27 Operational reforms and policy implications on public transport safety - a preliminary analysis of bus accident data in Malta	33 The bundling of electricity and mobility services: consumer engagement with new business models	66 Arguing Effectively for Modal Shift
	Tahera Mayat	Jenny McArthur	Corinne Mulley	Esther Anaya-Boig
	University of Leeds	UCL	University of Sydney	Imperial College London
	95 Factors associated with "good" performance for English highway local authorities	30 Transport Planning for the Night Time Economy	58 What are the prospects for switching out of conventional transport services to mobility as a service (MaaS) packages?	60 Building and testing an evaluation model of the impact of cycling policies

Thursday 4 January	Roberts Foyer G02	Roberts G06	Malet 102	Malet 103	Roberts 106
9:00 - 10:30	Session 4	Choice Modelling	Rail and Land Use	Novel Modes	Planning
		Allyson Rogers	Robin Hickman	Mohamed Jama Mohamed	Glenn Lyons
		Swansea University	UCL	Edinburgh Napier University	University of the West of England
Paper presentation		10 Bringing together mobilities and critical gerontology to study the transport behaviour of older people who use mobility aids	21 Euston station redevelopment: regeneration or gentrification?	9 Impact of Shared Ridesourcing Services on Public Transport policy and operations	26 Handling uncertainty in transport planning - purpose, procedures and people
		Charles Musselwhite	Gualtiero Bonvino	Maria Attard	Peter Jones
		Swansea University	UCL	University of Malta	UCL
		11 Older people's travel and mobility needs. A reflection of a hierarchical model 10 years on.	89 Transit Oriented Development for Public Transport Funding	19 Designing new flexible transport services for a University campus - the case of Malta	34 The interplay between urban transport policy and methodology: past, present and future
		Jens Kandt	Daniel Johnson	Haruko Nakao	Ross Welham (Smeed)
		UCL	University of Leeds	University of Leeds	UCL
		83 Inclusive and healthy mobility in the West Midlands: Understanding declining bus patronage by senior residents from smartcard data	97 Evaluation of Employment impacts of the Manchester Metrolink	75 A trip matching problem for ride sharing under heterogeneous willingness to trip share	14 Framework for Research & Technology Implementation in the UK Rail Industry
10:30 - 11:00	Tea & coffee				

11:00- 12:30

Session 5	Equity policies	Public Transport	Commuting	Urban Place
	Rosalia Camporeale	Nathan Darroch	Wei Liu	Enrica Papa
	Politecnico di Bari	University of Aberdeen	University of Glasgow	University of Westminster
Paper presentations	25 Multimodal transport equity impacts of cordon-based pricing strategies	37 Going underground: an exploration of the interfaces between underground urban transport infrastructure and its environment	4 Unlock the Sharing Economy: the Case of the Parking Sector for Recurrent Commuting Trips	71 Understanding station areas in Greater London: a 24h application of the Node-Place model
	Craig Morton	Jiping Fang	Alessandra Abeille	Chutipong Paraphantakul (Smeed)
	University of Leeds	UCL	Imperial College London	UCL
	69 A Framework for Assessing Spatial Vulnerability in the Introduction of Low Emission Zones: A case study of Edinburgh, Scotland	101 Modelling of Passenger Distribution on Metro Platforms Based on Passengers' Choice for Boarding Cars	15 A framework for modelling the role of tasks associated with occupations in determining the propensity to and productivity of work in mobile settings	93 Development and Application of a Link & Place Road Classification for Thailand
	Mengqiu Cao	Naif Alanazi	Omar Alotaibi	Jenny McArthur
	UCL	UCL	Cardiff University	UCL
	32 Urban Transport and Social Inequalities in Neighbourhoods Near Metro Stations in Greater London	24 Key factors influencing transit mode share around the world	90 Commuters' behavioral intentions and factors that affect travel choices in Riyadh City, Saudi Arabia	84 Sustainable aviation and megacities: the case of London and airport expansion in the South East

12:30- 13:30

Lunch

13:30 - 15:00

Session 6	Pollution and Health	Travel Choice	Age	Policy
	Emily Morris UCL	Hannah Budnitz (Smeed) University of Birmingham	Deborah Mifsud University of Malta	Brian Caulfield Trinity College Dublin
Paper presentations	43 Transport and public health in Havana: indicators of concern	17 Exploring the Influence of Weather on the Choice Not to Travel	67 Using Cluster Analysis to examine travel behaviour of older people in Malta	12 Impacts of border crossing options on a post-BREXIT travel on the Island or Ireland
	Abigail Bristow University of Surrey	Fiona Crawford University of Leeds	Ffion Carney UCL	Richard Allsop UCL
	57 Transportation noise - the Cinderella pollutant	98 Examining day-to-day variability in travel behaviour by connecting network and traveller focused analyses	72 Public Transport Accessibility: constructing an Accessibility Index for the elderly population in the West Midlands	3 Zero deaths and serious injuries on our roads: is this a prospect safe system should offer?
	Hebba Haddad Imperial College London	Amanda Jane Haylett University of Southampton	Shuo Li (Smeed) Newcastle University	Sarah Brooke University of Aberdeen
	64 From pigeons to people: The role of personal air pollution sensors and smartphone technology in changing travel behaviour	63 The appropriate design of pre-trip planning systems to encourage inclusive support to all traveller planning types	45 Investigating the Effects of Age and Disengagement in Driving on Driver's Take-over Control Performance from Highly Automated Vehicles	40 Challenges related to implementing sustainable transport in Port Cities

15:00 - 15:30

Tea & coffee

15:30-17: 00

Session 7	Panel discussion
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17:00- 18:00

AGM

PhD session

19:30

Conference Dinner

Institution of Civil Engineers

Friday 5 January	Roberts Foyer G02	Roberts G06	Malet 102	Malet 103	Roberts 106
9:00- 10:30	Session 8	Autonomous Vehicles	Infrastructure	Traffic Management	Developing Countries
		Ioannis Kaparias University of Southampton	Michael Natrass (Smeed) UCL	Andy HF Chow City University of Hong Kong	David Chikwendu University of Leeds
Paper presentations		28 Real-world validation of a system-level fuel economy optimisation framework in adaptive and semi-autonomous vehicle control scenarios	70 Infrastructuring when Cycling: How those Cycling, Walking and Driving come to justify the everyday use of the Road	50 Architectures of network traffic control systems	59 Future Scenarios for the Oil and Gas Downstream Product Transportation: A case study from Southern Nigeria
		Zia Wadud University of Leeds	Fangce Guo Imperial College London	Francis Brooks-Tyreman University of Bristol	Daniela Arellano Cardiff University
		36 The use and usefulness of travel time in fully automated vehicles	31 Predictor fusion for short-term traffic forecasting	8 A Simulation Model for Intra-Platoon Overtaking on Two-Lane Roads	92 The Impact of built environment on car ownership in Santiago de Chile
		William Clayton University of the West of England	Nils Goldbeck (Smeed) Imperial College London	Ruzanna Mat Jusoh University of Glasgow	Daniel Oviedo UCL
		68 Autonomous Vehicles: Willingness-to-pay and willingness-to-share	65 Resilience assessment for interdependent infrastructure systems: A dynamic network flow model	79 Traffic monitoring on sparse-measurement network-wide fundamental diagrams	91 Interrogating transport inequalities: accessibility to work and study in Santiago de Chile
10:30 - 11:00	Tea & coffee				
11:00 - 12:30	Session 9	Early career researchers	Research workshop		
		55 An Investigation of user preferences and acceptability of Autonomous transportation technologies			
		86 The MaaS Maturity Index - Measuring readiness for Mobility as a Service			
		99 Inclusive cycling training in the UK, Netherlands and Japan: its delivery, challenges and lessons learnt			
		38 Traffic Data Analysis for Traffic Assignment Considering Road Geometry in Cost Benefit Analysis			
		62 Assessing the main factors that affect the quality and quantity of pedestrian mobility for university students, the case of the University of Malta			
		106 A comparative analysis of telematics and mobile network phone data for evaluating travel behaviour			
12:35 - 13:20	Session 10	Plenary (TBC)			
13:20 - 13:40		Awards and closing session			

13:40

Grab and go lunch