

UTSG 54th ANNUAL CONFERENCE

4-6 July 2022, *Edinburgh Napier University*

Craiglockhart Campus, [219 Colinton Rd, Edinburgh EH14 1DJ](https://www.edinburghnapier.ac.uk/craiglockhart)

PROGRAMME

Monday 4th July 2022

12:30-13:30	REGISTRATION AND BUFFET LUNCH <i>Lindsay Stewart Lecture Theatre Foyer Area</i>
13:30-13:45	OPENING WELCOME <i>Lindsay Stewart Lecture Theatre</i> <i>Achille Fonzone (Edinburgh Napier University), Will Whitehorn (Chancellor of Edinburgh Napier University)</i>

13:45-14:30	<p>POLICY, PRACTICE, APPRAISAL, EVALUATION</p> <p>Uncertainty and triple access planning</p> <p><i>Lindsay Stewart Lecture Theatre</i></p> <p>Chair: Achille Fonzone</p> <p>Uncertainty and triple access planning in European Sustainable Urban Mobility Plans: a long way to go yet?</p> <p><i>Tom Rye (Hogskola I Molde), Stephen Cragg (Transport Scotland)</i></p>			
14:35-16:05	<p>TRAVEL BEHAVIOUR</p> <p>Measuring the impact of COVID-19 on travel choices</p> <p><i>Classroom 1/10</i></p> <p>Chair: Fiona Crawford</p>	<p>DECARBONISATION</p> <p>Decarbonising freight transport and logistics</p> <p><i>Classroom 2/05</i></p> <p>Chair: Jonathan Cowie</p>	<p>TRANSPORT MODELLING</p> <p>Perceptions, behaviour, guidance and education</p> <p><i>Classroom 1/06</i></p> <p>Chair: Richard Llewellyn</p>	
	<p>Longitudinal survey of Ebike use in the Lake District during Covid: insights for sustainable transport & green recovery [# 49]</p> <p><i>Ian Philips (University of Leeds)</i></p>	<p>From tools to data: Potential strategic responses of the aftersales industry to decarbonisation [# 11]</p> <p><i>Jorge Eslava-Bautista (University of Aberdeen)</i></p>	<p>Barriers to walking perceived by people don't necessarily correspond to those described in technical documents [# 5]</p> <p><i>Tamara Bozovic (University of West of England)</i></p>	

	<p>Impacts of COVID-19 on public transport demand: Using machine learning to identify passenger strategies based on smart card data [# 54]</p> <p><i>Maximiliano Lizana (University of Leeds)</i></p>	<p>How socio-technical and political transitions research can assist the purposive decarbonisation of United Kingdom road freight [# 41]</p> <p><i>Phil Churchman (University of Leeds)</i></p>	<p>Validation of the Multidimensional Driving Style Inventory in the UK and Comparison to International Multidimensional Driving Style Inventory Findings [# 10]</p> <p><i>Peter Youssef (University of Southampton)</i></p>	
	<p>An insight into the impacts of COVID-19 on work-related travel behaviours in the Cardiff Capital Region and following the UK's first national lockdown [# 56]</p> <p><i>Dimitris Potoglou (Cardiff University)</i></p>	<p>A Stochastic Logistics Model for Indonesia's National Freight Transport Model [# 51]</p> <p><i>Lydia Novitriana Nur Hidayati (University of Leeds)</i></p>	<p>Interdisciplinary Engineering Education on Intelligent Transportation Systems (ITS): A Comprehensive Application Study [# 69]</p> <p><i>Metin Mutlu Aydin (Ondokuz Mayıs University)</i></p>	
16:05-16:30	<p>COFFEE BREAK</p> <p><i>Lindsay Stewart Lecture Theatre Foyer Area</i></p>			
16:30-18:00	<p>SAFETY</p> <p>The long-standing pandemic of road casualties</p> <p><i>Classroom 1/10</i></p> <p>Chair: Greg Fountas</p>	<p>ACTIVE MOBILITY</p> <p>Accelerating the uptake of walking and cycling</p> <p><i>Classroom 2/05</i></p> <p>Chair: Adrian Davis</p>	<p>TRAVEL BEHAVIOUR</p> <p>The COVID-19 pandemic as a trigger for behaviour and lifestyle change</p> <p><i>Classroom 1/06</i></p> <p>Chair: Johannes Kester</p>	

	<p>Exploratory Variables for Crash Injury Risk Analysis [# 14]</p> <p><i>Guilhermina Torrao (Aston University)</i></p>	<p>Is cycle helmet promotion warranted? [# 1]</p> <p><i>Colin Clarke</i></p>	<p>Characterising changing travel patterns in Bristol during and beyond the COVID-19 pandemic [# 9]</p> <p><i>Fiona Crawford (University of West of England)</i></p>	
	<p>The politics of road death in Britain: are we still complacent? [# 31]</p> <p><i>Ian Greenwood (University of Leeds)</i></p> <p><i>Smeed Prize candidate</i></p>	<p>Walking accessibility: a new method and comparison of two capital cities [# 57]</p> <p><i>Josephine Roper (University of New South Wales)</i></p>	<p>The Impact of COVID-19, Climate Change and Working from Home on Travel Choices [# 72]</p> <p><i>Torran Semple (University of Nottingham)</i></p>	
	<p>Exploring the impact of built environment and socio-demographics on pedestrian safety: A case study of Greater London [# 75]</p> <p><i>Michael Forrest (University of Southampton)</i></p>	<p>Perceptions of Cycling to School Among Adolescents by Exposure to Cycle Skills Training in Primary and/or Intermediate School [# 76]</p> <p><i>Jenny Mindell (University College London)</i></p>	<p>Summary of Residential Location Choice and its Future in Light of COVID-19 [# 86]</p> <p><i>Mostafa Ayman Ilham (Edinburgh Napier University)</i></p>	

Tuesday 5th July 2022

09:00-10:30	SAFETY New evidence on the effectiveness of safety interventions <i>Classroom 1/10</i> Chair: Wafaa Saleh	ACTIVE MOBILITY Enabling the shift to active travel <i>Classroom 2/05</i> Chair: Jana Sochor	TRANSPORT MODELLING Emerging approaches for traffic flow and operations modelling <i>Classroom 1/06</i> Chair: Dilum Dissanayake	
	Effects of Visibilities on Road Traffic Accidents at Priority Junctions in Low Speed Areas: Analysis of 120 Locations in Portsmouth, UK. [# 19] <i>Mustafa Ekmekci (University of Portsmouth)</i> <i>Smeed Prize candidate</i>	Eliciting public preferences for walking and cycling infrastructure improvements: The value of qualitative testing towards a Best-Worst Scaling experiment [# 28] <i>Fahad Albahlal (Cardiff University)</i>	Storm impact assessment: How does heavy rainfall impact travel time? [# 21] <i>Kristina Wolf (Newcastle Uni)</i>	
	Can the 20mph speed limit reduce speeds in rural areas? Empirical evidence from the Scottish borders trial [# 66] <i>Adebola Olowosegun (Edinburgh Napier University)</i>	Comparing Perceived and Actual Persuasiveness of 'In App' Active Travel Messaging [# 32] <i>Kate Pangbourne (University of Leeds)</i>	Detecting shockwaves on motorways from inductive loops: A microscopic simulation based analysis [# 34] <i>Hassan Abu Saq (University of Southampton)</i>	

	The impact of the absence of centre line road markings on traffic speed within 20 mph and 30 mph speed limits [# 78] <i>Adrian Davis (University of West of England)</i>	Multi-Modal Flow Profile Analysis of a Low Traffic Neighbourhood Scheme [# 83] <i>Matthew Burke (University of Newcastle)</i>	The Performance Evaluation of Camera-Based Intelligent Signalized Intersections: A Case Study Under Turkish Drivers' Behaviors [# 70] <i>Metin Mutlu Aydin (Ondokuz Mayıs University)</i>	
10:30	COFFEE BREAK <i>Lindsay Stewart Lecture Theatre Foyer Area</i>			
11:00-12:30	TRAVEL BEHAVIOUR Insights into present and future travel behaviour <i>Classroom 1/10</i> Chair: Kate Pangbourne	FUTURE MOBILITY Pathways to shared mobility through electrification and automation <i>Classroom 2/05</i> Chair: Elena Alyavina (TBC)	FUTURE MOBILITY Emerging challenges and business models for aviation and rail industry <i>Classroom 1/06</i> Chair: Lee Woods	POLICY, PRACTICE, APPRAISAL, EVALUATION Car or transit oriented? Pathway to sustainable development <i>Classroom 2/09</i> Chair: Metin Mutlu Aydin
	Promoting the shift towards sustainability: Exploration of the hierarchical relationship among trip planning, trip chaining and mode choices [# 13] <i>Padma Tejaswi Satagopam (National Institute of Technology Warangal)</i>	Scooter Stories: User and non-user experiences of a shared e-scooter trial [# 8] <i>Billy Clayton (University of the West of England)</i>	Understanding Hydrogen Electric Aviation for Sub-Regional Flying in Scotland [# 39] <i>Pat Langdon (Edinburgh Napier University)</i>	How to improve the walking realm in a car-oriented city? (Dis)agreements between professional disciplines [# 6] <i>Tamara Bozovic (University of West of England)</i>

	Using lifestyle scenarios to investigate electric vehicle impacts in UK rural areas [# 38] <i>Thomas McKinney (University of Sheffield)</i>	Determinants of shared ownership and use of driverless cars in Edinburgh [# 64] <i>Sayed Faruque (Edinburgh Napier University)</i> <i>Smeed Prize candidate</i>	Welfare assessment of reforming the railway industry in Saudi Arabia [# 60] <i>Sultan Alsaedi (University of Southampton)</i>	Sustainable Urban Development Aspects of Elevated Transportation Infrastructure Systems [# 24] <i>Michael Olitsky (Afeka College of Engineering)</i>
	Investigating Commuter's Travel Choice Behaviour with attention to their attitudes to the Environment, Accessibility, Convenience, and Safety [# 81] <i>Titayapa Meenapinunt (University of Newcastle)</i>	Mode substitution patterns of current shared mobility users [# 77] <i>Gustav Bosehans (University of Newcastle)</i>	A Structural Path Analysis of the Economic Impacts of the Vietnamese Air Cargo Industry [# 85] <i>Eric Njoya (University of Huddersfield)</i>	Formal vs informal institutions in the TOD planning process: what are they, how do they function, how do they interact and what is their impact on the process, in low density contexts? [# 50] <i>Tom Rye (Hogskola I Molde)</i>
12:30-13:30	LUNCH <i>Classroom 2/10</i>			

13:30-14:30	<p>DECARBONISATION</p> <p>Improve the understanding to face the challenges</p> <p><i>Lindsay Stewart Lecture Theatre</i></p> <p>Chair: Jenny Mindell</p> <p>Exploring the Wicked Problem of Transport Decarbonisation: Using Participatory Causal Loop Mapping to Elucidate Place-Based Understandings [# 15]</p> <p><i>Louise Reardon (University of Birmingham)</i></p> <p>Estimating the whole life carbon emissions of transport infrastructure: Challenges and opportunities [# 55]</p> <p><i>Malcolm Morgan (University of Leeds)</i></p>			
14:35-15:35	<p>DECARBONISATION</p> <p>Assessing the impact of transport on air quality</p> <p><i>Classroom 1/10</i></p> <p>Chair: Andrew Timmis</p>	<p>FUTURE MOBILITY</p> <p>Transforming mobility with emerging transport business models</p> <p><i>Classroom 2/05</i></p> <p>Chair: Erel Avineri</p>	<p>TRAVEL BEHAVIOUR</p> <p>What makes railway systems appealing to users</p> <p><i>Classroom 1/06</i></p> <p>Chair: Ronghui Liu</p>	

	<p>Investigating Pollutant Exposures when travelling by Bus and Metro: Case study in Tyne and Wear North-East England [# 71] <i>Abdullah Bostaji (University of Newcastle)</i> <i>Smeed Prize candidate</i></p>	<p>Mobility as a Service and Travel Behaviour Change: Longitudinal Data Collection and Analysis Approach [# 2] <i>Nima Dadashzadeh (University of Portsmouth)</i></p>	<p>Impacts of Transport Connectivity on Migration: A Case Study of Metrolink Light Rail System in the Greater Manchester [# 26] <i>Teekanya Rujinarong (University of Leeds)</i></p>	
	<p>Application of advanced Hazard based statistical model to investigate trends in the duration of poor air quality events alongside Motorways due to Speed Restrictions [# 74] <i>Ayan Chakravartty (University of Newcastle)</i></p>	<p>Effects of ride-hailing services on vehicle-ownership: The case of Great Britain [# 48] <i>Pinar Bilgin (University of Leeds)</i></p>	<p>Investigating the factors that influence the ridership of light rail transit systems [# 80] <i>Huseyin Ayan (University of Newcastle)</i></p>	
15:35-16:00	<p>COFFEE BREAK <i>Lindsay Stewart Lecture Theatre Foyer Area</i></p>			
16:00-17:30	<p>DECARBONISATION Mobility in the era of digitalisation <i>Classroom 1/10</i> Chair: Ben Waterson</p>	<p>FUTURE MOBILITY Setting the scene for automated vehicles - A stakeholders' perspective <i>Classroom 2/05</i> Chair: John Parkin</p>	<p>TRAVEL BEHAVIOUR Journey characteristics and travel patterns using railway systems <i>Classroom 1/06</i> Chair: Thomas Zunder</p>	

	<p>Who shapes smart mobility? A comparison of smart mobility governance in Seattle, Greater Manchester and Stockholm [# 17]</p> <p><i>Ioanna Moscholidou (University of Leeds)</i></p> <p><i>Smeed Prize candidate</i></p>	<p>Drivers and Barriers Associated with Introducing Automated Buses on UK Roads – Insights from Stakeholders [# 36]</p> <p><i>Achille Fonzone (Edinburgh Napier University)</i></p>	<p>A Comparative Assessment of Journey Time Benefits From Different HSR Station Locations [# 3]</p> <p><i>Emine Yazici (University of Southampton)</i></p>	
	<p>Formalisation through digitalisation: Understanding the role of digital surveillance in the governance of South Africa’s minibus taxi industry [# 20]</p> <p><i>Helen Morrissey (University of Oxford)</i></p>	<p>Experts' Views on Infrastructure Requirements for Highly Automated Vehicle (SAE Level 4) Operation [# 43]</p> <p><i>Oguz Tengilimoglu (University of Leeds)</i></p>	<p>Measuring Travel Pattern of Urban Rail Users under Different Policies [# 33]</p> <p><i>Na Zhang (Chang'an University)</i></p>	
	<p>Mobility as a service (MaaS): A thematic map of challenges and opportunities [# 44]</p> <p><i>Elena Alyavina (University of Huddersfield)</i></p>	<p>Insuring future automobility: A qualitative discussion of the response of UK and Dutch car insurers to connected and automated vehicles [# 62]</p> <p><i>Johannes Kester (University of Oxford)</i></p>	<p>Predicting Primary/Secondary delay of train services using Machine Learning and Graph-Embedding based methods. [# 68]</p> <p><i>Ruifan Tang (University of Leeds)</i></p>	

17:30-19:00	<p>UTSG ANNUAL BUSINESS MEETING</p> <p><i>Siegfried Room, Rivers Suite</i></p>	<p>PGR STUDENT WORKSHOP</p> <p><i>Classroom 2/05</i></p> <p>So what is an original contribution to knowledge?</p> <p><i>Richard Llewellyn (Edinburgh Napier University)</i></p>
19:00-19:30	<p>RECEPTION</p> <p><i>Rivers Suite Bar Area/External marquee, Craiglockhart Campus</i></p>	
19:30-21:30	<p>CONFERENCE DINNER</p> <p><i>Chapel, Craiglockhart Campus</i></p>	

Wednesday 6th July 2022

09:00-10:30	DECARBONISATION Equity, justice, and sustainability for electric and automated mobility <i>Classroom 1/10</i> Chair: Eric Njoya	FUTURE MOBILITY Public attitudes and preferences towards electrification and automation <i>Classroom 2/05</i> Chair: Tom Rye	TRANSPORT MODELLING New evidence on Machine Learning and Statistical Modelling <i>Classroom 1/06</i> Chair: Nima Dadashzadeh	
	The subject of social justice in electric mobility: They the People [# 12] <i>Hannah Budnitz (University of Oxford)</i>	Perceptions and Attitudes Towards Automated Buses – Findings from an online survey distributed to Stagecoach bus passengers [# 37] <i>Greg Fountas (Aristotle University of Thessaloniki)</i>	Machine learning methods to validate transport policy interventions: framework for identifying relevant data [# 4] <i>Farzaneh Farhadi (University of Newcastle)</i>	
	Social Justice and Electric Vehicle Charging Infrastructure. Are Electric Vehicle Charging allocation policy, strategy and funding supporting uptake across all demographics. [# 25] <i>Emma Hopkins (Cardiff University)</i>	Acceptance of Connected and Autonomous Vehicles with a focus on cyber security and privacy risks: an extended Technology Acceptance Model [# 59] <i>Na Liu (University of Huddersfield)</i>	Activity timing analysis: an MDCEV approach [# 63] <i>Zifan Wu (Imperial College London)</i>	

	Autonomous Transport and the Environment: Can Driverless Urban Futures be Sustainable? [# 45] <i>Alexandros Nikitas (University of Huddersfield)</i>	Public Charging Choices of Potential and Existing Electric Vehicle Users - A Review of Revealed and Stated Preferences Studies [# 79] <i>Dimitris Potoglou (Cardiff University)</i>	Multi-level and multi-modal feature fusion for accurate 3D object detection in Connected and Automated Vehicles [# 87] <i>Yiming Hou (University of Leeds)</i>	
10:30-11:00	COFFEE BREAK <i>Lindsay Stewart Lecture Theatre Foyer Area</i>			
11:00-12:00	POLICY, PRACTICE, APPRAISAL, EVALUATION Current challenges in transport policy in the UK <i>Classroom 1/10</i> Chair: Alexandros Nikitas	POLICY, PRACTICE, APPRAISAL, EVALUATION Best practices for last-mile logistics and supply chain management <i>Classroom 1/06</i> Chair: Dimitris Potoglou	POLICY, PRACTICE, APPRAISAL, EVALUATION How can policy enhance transport equity and accessibility? <i>Classroom 2/05</i> Chair: Ioannis Kaparias	
	The Crisis of Transport and Transport Appraisal [# 82] <i>Phil Goodwin (University College London)</i>	Urban Freight Policy Maturity and Sustainable Logistics – Are they related? [# 40] <i>Jonathan Cowie (Edinburgh Napier University)</i>	Seeking transport justice? Equity and active travel policy in England [# 22] <i>Mia Rafalowicz-Campbell (Sheffield Hallam Uni)</i>	

	Applying recent policy to the roads programme in Wales [# 18] <i>John Parkin (University of West of England)</i>	HALLO: Hubs for Last Mile Delivery Solutions in Barcelona and Stockholm [# 61] <i>Jana Sochor (KTH)</i>	Defining transport equity: The case of Scottish transport policy [# 27] <i>Alan Rehfish (Edinburgh Napier University)</i>	
12:05-13:05	<p>FUTURE MOBILITY</p> <p>Delivering the future</p> <p><i>Lindsay Stewart Lecture Theatre</i></p> <p>Chair: Margaret Bell</p> <p>The Future of Mobility May Have Arrived, But Who is Going to Deliver It? [# 65] <i>Graham Parkhurst (University of West of England)</i></p> <p><i>Discussants: Jana Sochor, Kate Pangbourne, Marcus Enoch</i></p>			
13:05-13:20	<p>AWARDS AND CLOSING SESSION</p> <p><i>Lindsay Stewart Lecture Theatre</i></p> <p><i>Pat Langdon (Edinburgh Napier University), John Parkin (UTSG Chair)</i></p>			
13:20	<p>“GRAB AND GO” LUNCH</p> <p><i>Lindsay Stewart Lecture Theatre Foyer Area</i></p>			