

**UTSG 51<sup>st</sup> ANNUAL CONFERENCE**  
**8-10 July 2019, University of Leeds**  
**UPDATED PROGRAMME**



**Monday 8<sup>th</sup> July 2019**

|                     |   |   |  |  |
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| 12.30               | <b>Registration and Buffet Lunch</b>  |   |  |  |
| 13.15               | <b>Opening Welcome</b> <i>Professor Richard Batley, Head of School, ITS Leeds, Professor Tom Rye (Napier), UTSG Chair, Dr Tony Whiteing, conference organiser</i><br><i>Clothworkers Hall</i> |   |  |  |
| 13.30<br>-<br>14.15 | <b>Opening Plenary Session</b><br>Why Did UK Governments Cut Road Building in the 1990s and Increase it After 2010? (1)<br><i>Steve Melia, UWE</i><br><i>Clothworkers Hall</i>                |   |  |  |
| 14.20<br>-<br>15.50 | <b>Autonomous Vehicles</b><br><i>Clothworkers Hall</i>  | <b>Travel and young people</b><br><i>Lecture Theatre 1</i>  | <b>Issues in transport modelling</b><br><i>Lecture Theatre 2</i>   | <b>Urban transport</b><br><i>Lecture Theatre 3</i>   |
|                     | Autonomous Vehicles: Who will use them, and will they share? (100)<br><i>William Clayton, Graham Parkhurst, Daniela Paddeu and John Parkin, UWE</i>   | Young People's Travel – What's Changed, Why and the Implications (97)<br><i>Kiron Chatterjee, Phil Goodwin, Tim Schwanen and Catherine Davie, UWE, Oxford &amp; DfT</i>           | Path Size Logit Route Choice Models: Issues with Current Models, and a New Internally Consistent Approach (43)<br><i>Lawrence Duncan and David Watling, Leeds</i>  | Understanding urban metro infrastructure: how the past explains the present, and the future (77)<br><i>Nathan Darroch, Aberdeen (Smeed Prize candidate)</i>  |
|                     | To own or not to own? That is the question. (123)<br><i>Zia Wadud and Giulio Mattioli, Leeds and TU Dortmund</i>  | What 'Makes or Breaks' Walking School Buses? A Qualitative Study of Parental Attitudes (91)<br><i>Alexandros Nikitas, Judith Wang and Cathy Knamiller, Huddersfield and Leeds</i> | Insights from critical realism for the design of transport models (116)<br><i>Helen Bowkett, UWE</i>   | Investigating the importance of walk stages as a factor in the choice between car and public transport in urban areas (35)<br><i>Dennis van Soest, Birmingham (Smeed Prize candidate)</i>              |
|                     | Impact of Autonomous Vehicles on Travel Distance due to the Changes in Parking Demand (111)<br><i>Khaled Abdullah, Zia Wadud and Paul Timms, Leeds</i>  |   | Dynamic competition evolution in the United Kingdom port range: Prognosis of the demand for container traffic at the lift-on lift-off deep water container terminals applying a Lotka-Volterra model (46)<br><i>Manuel Buitrago, Southampton/Antwerp (Smeed Prize candidate)</i> | A Quasi-experimental approach to measuring the impact of Manchester Metrolink on property prices (76)<br><i>Daniel Johnson, John Nellthorp, Manuel Ojeda Cabral, Like Jiang and Chris Leahy, Leeds</i> |
| 15.50               | Refreshments  |   |  |  |

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| 16.20<br>-<br>17.50   | <b>Active Travel</b>  | <b>Reliability and resilience</b>  | <b>Mobility, accessibility and equity in transport</b>  | <b>Ride-sharing: towards MaaS</b>  |
|   | <i>Clothworkers Hall</i>  | <i>Lecture Theatre 1</i>   | <i>Lecture Theatre 2</i>  | <i>Lecture Theatre 3</i>   |
|   | Walking as a Service - does it have legs? (80)<br><i>Glenn Lyons, UWE</i>   | Responding to Stormy Weather: Choosing Which Journeys to Make (22)<br><br><i>Hannah Budnitz, Emmanouil Tranos and Lee Chapman, Birmingham</i>                | Dynamic Accessibility and the Healthcare Ecosystem (88)<br><br><i>Alfred Long, Jens Kandt, Alistair Leak and Paul Longley, UCL</i>  | Examining Mobility as a Service (MaaS) and its Potential to Change Travel Behaviour: A Qualitative Approach (61)<br><br><i>Elena Alyavina, Alexandros Nikitas and Eric Tchouamou Njoya, Huddersfield</i> |
|   | Attitude or personality? Tailoring messages for active travel (65)<br><i>Kate Pangbourne, Sam Bennett and Alex Baker-Graham, Leeds</i>                                    | Optimising road network recovery from major multi-day disruptions (53)<br><br><i>Antonio Pellicer-Pous and Neil S Ferguson, Strathclyde</i>                  | The (In)justice of Clean Air Zones (89)<br><br><i>Graham Parkhurst, UWE</i>   | Learning to Share: Car and Ride Sharing in the Age of Autonomous Vehicles (93)<br><br><i>Georgie Wells and Zia Wadud, Leeds</i>  |
| A small area estimation of the capability of individuals to replace car travel with walking, cycling and e-bikes and its implications for reducing CO2 emissions (95)<br><br><i>Ian Philips, Jillian Anable and Tim Chatterton, Leeds and UWE</i> | How railway delays affect passenger satisfaction. An investigation using discrete choice models (109)<br><br><i>Fredrik Monsuur, Loughborough (Smeed Prize candidate)</i> | Analysis of smart card data to understand the mobility patterns of concessionary bus users (85)<br><br><i>Ffion Carney, Paul Longley and Jens Kandt, UCL</i> | An investigation of factors affecting the sustainability and success of car sharing (17)<br><br><i>Fatih Kerem Boz, Professor John Nelson, Dr Mark Beecroft and Dr Richard Mounce, Aberdeen</i> |  |
| 19.00   | Evening Buffet ( <i>School of Music Foyer</i> )   |  |   |  |

Tuesday 9<sup>th</sup> July 2019

| 09.00<br>-<br>10.30 | Encouraging inclusive use of transport                                       | Issues in commuter travel  | Autonomous Vehicles  | Travel and driver behaviour   |
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|                     | <i>Clothworkers Hall</i>   | <i>Lecture Theatre 1</i>   | <i>Lecture Theatre 2</i>   | <i>Lecture Theatre 3</i>  |
|                     | Making railways more age friendly (7)<br><i>Charles Musselwhite, Swansea</i> | Examining intrapersonal variability in commuting behaviour using travel diary data (113)<br><i>Fiona Crawford, UWE</i> | Right-of-Way Reallocation for Mixed Flow of Autonomous Vehicles and Human Driven Vehicles (82)<br><i>Tang Li, Fangce Guo, Rajesh Krishnan and Aruna Sivakumar, Imperial</i>    | Cross-cultural differences in driving behaviour: a driving simulator study (20)<br><i>Chinebuli Uzundu, Samantha Jamson and Daryl Hibberd, Leeds</i>                                      |
|                     | Travel anxiety (45)<br><i>Roger Mackett, UCL</i>                             | Potentials of CO2 reduction in Viennese commuter traffic (106)<br><i>Gerda Hartl and Gabriel Wurzer, VUT Vienna</i>    | Addressing the new reality of Connected and Autonomous Vehicles in Highway Design (108)<br><i>Hameed Jehanfo, Ioannis Kaparias, John Preston and Alan Stevens, Southampton</i> | Passenger Comfort and Trust on First-Time Use of a Shared Autonomous Shuttle Vehicle (79)<br><i>Daniela Paddeu, Graham Parkhurst, Jonathan Flower, Miriam Ricci and Ian Shergold, UWE</i> |
| 10.30               | Refreshments   |  |  |   |

| 11.00 | <b>Traffic Management</b>  | <b>Reducing environmental impact</b>   | <b>Transport and Society</b>   | <b>Issues in Transport Modelling</b>  |
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| -     | <i>Clothworkers Hall</i>   | <i>Lecture Theatre 1</i>   | <i>Lecture Theatre 2</i>   | <i>Lecture Theatre 3</i>  |
| 12.30 | <p>Predicting Real-Time Traffic Conflicts using Deep Learning (55)</p> <p><i>Nicolette Formosa, Loughborough (Smeed Prize candidate)</i></p>         | <p>The use of vehicle-to-grid in vehicle fleets: foremost application or road with hurdles? (30)</p> <p><i>Toon Meelen, Brendan Doody and Tim Schwanen, Oxford</i></p>                   | <p>Developing indicators for measuring social sustainability in the transport sector in small- to medium-sized cities in China (52)</p> <p><i>Zhengyue Wan, UCL</i></p>      | <p>Future evolution of the car stock in Belgium: CASMO, the new satellite of PLANET (15)</p> <p><i>Laurent Franckx, Federal Planning Bureau, Belgium</i></p>    |
|       | <p>Signal timing optimization of the intersection connected with city ring road (62)</p> <p><i>Shiwei Liu, Shurong Qiu and Ying Li, Chang'an</i></p> | <p>Investigating the Impacts of Increased Uptake of Electric Vehicles on Air Quality and Health (103)</p> <p><i>Saad Almutairi, Anil Namdeo and Phil Blythe, Newcastle</i></p>           | <p>The impact of migration background and social network dispersion on air and car travel in the UK (32)</p> <p><i>Giulio Mattioli and Joachim Scheiner, TU Dortmund</i></p> | <p>Understanding transport mode choice for commuting: The role of Affect (92)</p> <p><i>Augustus Ababio-Donkor, Wafaa Saleh and Achille Fonzone, Napier</i></p> |
|       | <p>Understanding attitudes to priorities at side road junctions (6)</p> <p><i>Jonathan Flower and John Parkin, UWE</i></p>                           | <p>Investigating bus interchange re-configuration options to reduce local pollutant emissions (121)</p> <p><i>Ioannis Kaparias, Sreedevi Padmakumar and Devrim Kara, Southampton</i></p> | <p>Transport Innovation Acceptance: A Gender Meta-Analysis (114)</p> <p><i>Jana Sochor and Alexandros Nikitas, Chalmers and Huddersfield</i></p>                             | <p>Developing a Line Level Passenger Flow Control Method for Metro Lines (72)</p> <p><i>Natchaya Lailomthong and Taku Fujiyama, UCL</i></p>                     |
| 12.30 | Buffet lunch ( <i>School of Music Foyer</i> )  |  |  |   |

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| 13.30<br>-<br>14.15 | <b>Plenary Session</b><br>Some aspects of the relationship between research and policy in transport (70)<br><i>Phil Goodwin, UCL</i><br><br><i>Clothworkers Hall</i>   |  |
| 14.20<br>-<br>15.00 | <b>Short Presentations</b><br><br><i>Clothworkers Hall</i>   | <b>Short Presentations</b><br><br><i>Lecture Theatre 1</i>   |
|                     | Understanding the shared transportation services in Latin-American cities: the case of the ridehailing drivers in Mexico City (112)<br><i>Thalia Hernandez Amezcua, Leeds</i><br><br>Car use: intentional, habitual or both? Insights from Wittgenstein, Anscombe and the mobility biography literature. (44)<br><i>Edmond Daramy-Williams, Jillian Anable and Susan Grant-Muller, Leeds</i><br><br>Techniques used to facilitate access to public transportation facilities with emphasis on their effectiveness for people with reduced mobility: A literature review (27)<br><i>Fahad Albahlal and Dimitris Potoglou, Cardiff</i> | Investigating the factors influencing the adoption of environmental practices by small European airports (73)<br><i>Grace Crowley, Loughborough</i><br><br>Improving Long Term Planning for Distribution Network Systems; an Optimisation - Visioning Approach (60)<br><i>David Chikwendu, Paul Timms and David Watling, Leeds</i><br><br>Decarbonisation of transport: exploring potential impacts upon the automotive after sales sector (10)<br><i>Jorge Eslava, Caitlin Cottrill and Mark Beecroft, Aberdeen</i> |
| 15.00               | Refreshments   |  |

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| 15.30<br>-<br>17.00 | <b>Rail demand modelling and forecasting</b><br><i>Clothworkers Hall</i>  | <b>Transport and Regional Development</b><br><i>Lecture Theatre 1</i>  | <b>Issues in transport planning</b><br><i>Lecture Theatre 2</i>  |  |
|                     | High-Speed Rail Forecasting Demand Model, Using Riyadh-Dammam Corridor, Saudi Arabia as Case Study (13)<br><i>Hamad Almujiabah and John Preston, Southampton</i>                          | Does transport help to gain employment? A systematic review and meta-analysis of the empirical evidence (59)<br><i>Jeroen Bastiaanssen, Leeds (Smeed Prize candidate)</i>              | Does clustering of transport measures enable effective evaluation? Examples from Port Cities (16)<br><i>Sarah Brooke, Caitlin Cottrill, Martin Kollingbaum, John Nelson and Steve Wright, Aberdeen</i> |  |
|                     | Modelling departure time choice of commuters in urban rail transit including crowding impact (25)<br><i>Yan Cheng, Xiafei Ye and Taku Fujiyama, UCL and Tongji</i>                        | Assessing the value of improving maritime & hinterland connections using a Chain Cost Model – The case of Saudi Arabia (28)<br><i>Nora Nezamuddin, Antwerp</i>                         | What is the big problem with cars? Problematisations, measures and blind spots in local transport and land use planning (11)<br><i>Robert Hrelja, Tom Rye and Karin Thoresson, Napier and VTI</i>      |  |
|                     | Evaluation of multiple-county integrated ticketing scheme, the case of Movingo in Sweden (75)<br><i>Ilyas Bandugupirah Alhassan, Bryan Matthews, Jeremy Toner and Yusak Susilo, Leeds</i> | Land Value and Transport: Modelling and Appraisal for a large multi-city region (107)<br><i>John Nellthorp, Manuel Ojeda-Cabral, Chris Leahy, Like Jiang and Daniel Johnson, Leeds</i> | Tensions in Transition: Exploring the impacts of increased demand for kerbside access (63)<br><i>Tianli Tang, Greg Marsden and Ronghui Liu, Leeds</i>  |  |
| 17.00               | <b>UTSG Annual Business Meeting</b>   |  | <b>PGR Student Writing Workshop</b><br><b>“Find Your Spark”, moderator Kate Pangbourne</b>   |  |
| 19.00               | <b>Reception (Great Hall)</b>   |  |  |  |
| 19.30               | <b>Conference Dinner (Great Hall)</b>   |  |  |  |

Wednesday 10<sup>th</sup> July 2019

| 9.00<br>-<br>10.30 | <b>Autonomous Vehicles</b>  | <b>Transport and Development</b>   | <b>Driver behaviour</b>  |
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|                    | <i>Clothworkers Hall</i>  | <i>Lecture Theatre 1</i>   | <i>Lecture Theatre 2</i>   |
|                    | Investigating acceptability of Autonomous Vehicles in the UK - A survey of public opinion (24)<br><i>Nitin Kadam, John Nelson and Caitlin Cottrill, Aberdeen</i>                                      | Investigating the mechanisms influencing Information and Communication Technology adoption among selected supply chains in Nigeria: a multiple case study (33)<br><i>Anthony Ezenwa, Leeds (Smeed Prize candidate)</i>         | An Empirical Analysis of the Effect of Driver Fatigue, Gender, and Distracted Driving on Perceived and Observed Aggressive Driving Behaviour (49)<br><i>Grigorios Fountas, Sarvani Sonduru Pantangi, Kevin Hulme and Panagiotis Anastasopoulos, Napier</i> |
|                    | Cybersecurity and Privacy in the Context of Connected and Autonomous Vehicles: A Qualitative Study Examining Expert Views (66)<br><i>Na Liu, Alexandros Nikitas and Simon Parkinson, Huddersfield</i> | Assessing the social costs of urban transport infrastructure options in developing countries (12)<br><i>Tam Vu and John Preston, Southampton</i>   | Exploring the beliefs held by Nigerian drivers towards speeding behaviour (67)<br><i>Anderson Etika, Natasha Merat and Oliver Carsten, Leeds</i>   |
|                    | Trust ratings of cyclist and pedestrian encounters with autonomous vehicles (58)<br><i>John Parkin, Fiona Crawford, Jonathan Flower, Chris Alford, Phil Morgan and Graham Parkhurst, UWE</i>          | Impact Of Household Demographic Factors on Car Ownership Among Different Household Categories In Developing Countries: A Case Study Of Accra, Ghana (29)<br><i>Samuel Adjei Appiah, Greg Marsden and Jillian Anable, Leeds</i> | Incorporating the effects of stress in a car-following model using driving simulator and physiological sensors data (118)<br><i>Evangelos Paschalidis, Leeds</i>   |

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| 10.30               | Refreshments   |   |   |  |
| 11.00<br>-<br>12.00 | <b>Ride-sharing: towards MaaS</b><br><i>Clothworkers Hall</i>  | <b>Rail</b><br><i>Lecture Theatre 1</i>   | <b>Valuation</b><br><i>Lecture Theatre 2</i>  | <b>Multimodal tripmaking</b><br><i>Lecture Theatre 3</i>   |
|                     | Examining varying business models of on-demand shared-ride services (84)<br><i>Thomas Calvert, Juliet Jain, Graham Parkhurst, Ian Shergold and Steve Ward, UWE</i>   | A Mixed Methods Analysis Into Political Lobbying Within Britain's Rail Industry (90)<br><i>Jack Thompson, Leeds</i>   | Willingness to Pay for On-Bike Safety Technology (115)<br><i>Daniel Johnson, Jeremy Shires and Eva Heinen, Leeds</i>  | Heterogeneity in multimodality across travel purposes: Evidence from the National Travel Survey for Great Britain (56)<br><i>Zihao An, Eva Heinen and David Watling, Leeds</i> |
|                     | The utilisation and user characteristics of Uber services in London (124)<br><i>Mohamed Jama Mohamed, Tom Rye and Achille Fonzone, Napier</i>  | What the passenger really wants: rail user centric planning and mobility (74)<br><i>Daniel Johnson, Kate Pangbourne, Jeremy Shires, Carlo Vaghi, Simon Mastrangelo and Simone Lettieri, Leeds</i> | The value of travel time savings in freight transport: A meta-analysis (86)<br><i>Jawaher Binsuwadan, Gerard De Jong, Richard Batley and Phill Wheat, Leeds</i> | CO2 emissions and multimodality: a relationship moderated by distance (37)<br><i>Eva Heinen and Giulio Mattioli, Leeds and TU Dortmund</i>                                     |
| 12.05               | <b>Closing Plenary Speaker</b><br><br>Rearranging elephants on the Titanic: the astonishing absence of the carbon reduction imperative in transport policy and research (96)<br><i>Jillian Anable, Leeds</i><br><br><i>Clothworkers Hall</i> |   |   |  |
| 12.50               | <b>Awards and Closing session</b><br><br><i>Clothworkers Hall</i>  |   |   |  |
| 13.10               | 'Grab and Go' Lunch  |   |   |  |