



TDM 2025

12TH INTERNATIONAL SYMPOSIUM
ON TRAVEL DEMAND MANAGEMENT

CONFERENCE PROGRAM

THE 12TH INTERNATIONAL SYMPOSIUM ON TRAVEL DEMAND MANAGEMENT (TDM 2025)



SYMPOSIUM DATES AND VENUE

The symposium will take place from **9th to 11th December 2025**, in **Sydney**, Australia, at the University of Sydney CBD Campus at **133 Castlereagh Street, Sydney**.

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Time		Tuesday 9th December		
8.30am	9am	Registrations		
9am	9.30am	Welcome to Country (including Didgeridoo performance)		
9.30am	10am	Welcome by Deputy Dean Research + Prof. Michael Bell (Chair of the Local Organising Committee)		
10am	10.30am	Keynote by Josh Murray (NSW Secretary of Transport)		
10.30am	11am	Morning Tea		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Public Transport Planning and Reform, Session Chair: Prof. John Nelson	Theme: Simulation and Modelling Innovation, Session Chair: Prof. David Levinson	Theme: Emerging Mobility and Micromobility Integration, Session Chair: Prof. Stephen Greaves
11am	11.25am	Time for a Reset of Bus Contracts? (by: David Hensher AM)	Estimating Desired Trip Demand for Discretionary Purposes under Mobility Constraints (by: Tomio Miwa)	Stakeholder Perspectives on Mobility Hub Functions in Mediterranean Contexts: An Analytic Hierarchy Process Analysis (by: Maria Attard)
11.25am	11.30am	Room Transition Break		
11.30am	11.55am	The divisibility index: a theoretical device to support public transport design (by: Valentina Gomez)	Automated Conversion of Predicted Historic Road Maps to Graph Representations (by: Ethan Yin)	Scaling Mobility as a Service through Multiservice Platforms: Evidence from Australia and Japan (by: Chinh Ho)
11.55am	12pm	Room Transition Break		
12pm	12.30pm	Linking COVID-19 Ridership Changes with Tokyo Metro Centralities (by: Xi Lin)	Priority-Based Multi-Agent V*: A Simulation Framework for Non-Lane-Based Street Traffic (by: Abdullah Zareh Andaryan)	Promoting micromobility as a TDM tool in Australia: Opportunities and challenges (by: Geoff Rose)
12.30pm	1.30pm	Lunch		
1.30pm	2pm	Keynote by Prof. Kay Axhausen		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Active Transport, Data Analytics, and Micro-Mobility Behaviour, Session Chair: Dr. Yuting Zhang	Theme: Road Pricing and Demand Management, Session Chair: Mr. David Surplice	Theme: Household Decision-Making and Evolving Travel Behaviour, Session Chair: A/Prof. Chinh Ho
2pm	2.25pm	Volume pricing discounts and shared e-scooter use (by: Geoff Rose)	Empirical Investigation on the Use of Road Pricing as a Road Safety Strategy: A Discrete Choice Experiment (by: Humberto Barrera-Jimenez)	Joint decision of household vehicle ownership, fuel type and ADAS feature choices (by: Shamsunnahar Yasmin)
2.25pm	2.30pm	Room Transition Break		
2.30pm	2.55pm	CatBoost-Based Prediction of Daily Bicycle Counts at the Link Level in the Sydney CBD (by: Xueqing Shi)	The Impact of Reservation Order Ratio on the Efficiency of Ride-pooling Service (by: Zixuan Yang)	Enhancing Travel Behaviour Insights: The Transformative Power of GPS in Household Travel Surveys (by: Adri van der Mescht)
2.55pm	3pm	Room Transition Break		
3pm	3.30pm	Evaluating Electric Micro-Mobility Ownership Choice Stated Preferences for Car Owners: A Mixed Logit Model (by: Yikang Wu)	Road Pricing Unravelling: An Integrated Framework to Inform Research and Practice (by: Humberto Barrera-Jimenez)	Aggregate Travel Behaviour Changes Post-Pandemic: Insights from the Queensland Household Travel Survey (by: Siddhesh Patil Kulkarni)
3.30pm	4pm	Afternoon Tea		

		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Travel Behaviour of Special Populations and Mode Adoption, Session Chair: Dr. Emily Moylan	Theme: Emissions, Low-Carbon Policies, and Traffic Management, Session Chair: Prof. Michael Bell	Theme: Behavioural Dynamics and Information Use, Session Chair: Prof. Corinne Mulley
4pm	4.25pm	Profiling Public Transit Use among Aging Populations: A Latent Clustering Approach (by: Meredith Alousi-Jones)	Impacts of Internal Combustion Engine Vehicles (ICEVs) and Hybrid Electric Vehicles (HEVs) on Emission and Signal Timing at Isolated Intersections (by: Ponlathep Lertworawanich)	Behavioural-science approach to optimise the use of traveller information tools (by: Ronny Kutadinata)
4.25pm	4.30pm	Room Transition Break		
4.30pm	4.55pm	Integrating the Node-Place Model and Urban Resilience Based on Vitality Changes in Response to COVID-19 : Classifying and Evaluating Station Areas in Aichi, Japan (by: Hyundo Kang)	Investigating preferences for low-emission zone measures: do time and space matter? (by: Ching-Fu Chen)	Regional Patterns and Challenges in the Urban Mobility of Women in Ghana (by: Augustus Ababio-Donkor)
4.55pm	5pm	Room Transition Break		
5pm	5.30pm	Understanding the dynamics of market evolution and the intention-behaviour gap in the context of BRT adoption (by: Ahmed El-Geneidy)	The screen-line traffic counting location problem under observation uncertainty (by: Toshiki Arai)	Examining Intra-Household Dynamics in Daily Travel Time Allocation among Dual-Earner Couples (by: Shamsunnahar Yasmin)
6pm	9pm	Networking Reception (at The Castlereagh, 199 Castlereagh Street)		

Time		Wednesday 10th December		
8.30am	9am	Registrations		
9am	9.30am	Keynote by Simon Hunter (Chief Transport Planner, Transport for NSW)		
9.30am	10am	TRIPS Launch (Prof. David Hensher AM, Dr. Supun Perera, Mr. Ben Wood and Prof. Michael Bell)		
10am	10.30am			
10.30am	11am	Morning Tea		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Resilient and Data-Driven Public Transport Systems, Session Chair: Prof. John Nelson	Theme: Pathways to Net Zero: Decarbonising Transport Systems, Session Chair: Dr. Emily Moylan	Theme: Urban Form, Density, and Mobility Interactions, Session Chair: Mr. Ben Wood
11am	11.25am	Resilience of Public Transport Systems through Socio-ecological Perspective (by: Joshitha Tottala)	Decarbonizing Land-Based Passenger Transport in Saudi Arabia (by: Yagyavalk Bhatt)	How Land Use and Infrastructure Location Shape Travel Behaviours (by: Ed Chan)
11.25am	11.30am	Room Transition Break		
11.30am	11.55am	Identifying the Public Transport Service Gaps for Tourism: A Smart Card Data Analysis for International Tourists in Taiwan (by: Chia-Jung Yeh)	The Path to Net Zero: Travel Demand Management to support Decarbonising Australia's Transport System (by: Kirsty Kelly)	The role of Density in Transport Model Development - A data analysis assessment (by: Graham McCabe)
11.55am	12pm	Room Transition Break		
12pm	12.30pm	Comparative Analysis of Charging Technologies in Modular Bus Systems (by: Haoran Zhao)	The danger of incorrect objectives for TDM (by: Kate Mackay)	Exploring aspects of transport-induced gentrification: the case of Sydney's CBD and South-East Light Rail Project (by: John Nelson)
12.30pm	1.30pm	Lunch		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Active Mobility and Behavioural Insights, Session Chair: Prof. Stephen Greaves	Theme: Urban Freight, Electrification, and Emerging Logistics Systems, Session Chair: Prof. Michael Bell	Theme: Equity and Inclusion in Transport Systems, Session Chair: Mr. David Surplice
1.30pm	1.55pm	Active Travel to School: Policy Insights from Distance, Environment, and Lifestyle Determinants (by: Laya Hossein Rashidi)	Integrating industrial land and urban freight - city level planning (by: Michael Stokoe)	Walking Equity: Public Perceptions on the Distribution of Benefits and Burdens (by: Ashikur Rahman)
1.55pm	2pm	Room Transition Break		
2pm	2.25pm	From Car Seats to Walking School Bus (WSB) Stops: Understanding Parental Mode Choice Preferences Through a Stated Choice Experiment (by: Khatun E Zannat)	Quantifying Bias and Fairness in Large Language Models for Electric Vehicle Charging Demand Management (by: Artur Grigorev)	Smart Mobility or Smart Divide? Evaluating the Equity Impacts of TDM Measures in the UK (by: Wafaa Saleh)
2.25pm	2.30pm	Room Transition Break		
2.30pm	2.55pm	Strategic Cost Assessment of Bike-Train Integration: What Should Cities Build? Infrastructure for Shared Bikes, Private Bike Parking, or On-Train Boarding (by: Regine Tejada)	Comparison of charging behaviour for private and fleet company EV users using a data-driven approach (by: Tuo Mao)	Methodological Distortions in Agent-Based Models: Implications for Equity-Focused Travel Demand Management (by: Esta Qiu)
2.55pm	3pm	Room Transition Break		
3pm	3.30pm	Understanding Behavioural Needs for Active Travel in New South Wales (by: Sara Haider)	Micrologistics Challenges and Opportunities (by: Michael Stokoe)	Equitable for whom? Parking policy reform in Sydney's Inner West (by: Kendall Banfield)

3.30pm	4pm	Afternoon Tea		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Innovations in Travel Demand Management, Session Chair: Prof. John Nelson	Theme: Understanding Traveller Behaviour and Mode Choice, Session Chair: Dr. Supun Perera	Theme: Empirical Insights in Sustainable Transport Practice, Session Chair: Prof, David Levinson
4pm	4.25pm	The knife, the fork, and the spoon: 3 trip charges for the TDM toolbox (by: Harry Barber)	Modelling the effects of travel time use on mode choice and the value of travel time savings tackling self-selection and endogeneity bias (by: Ana Luiza de Sá)	Understanding satisfaction and travel behavior of nationwide Fare-Free Public Transport in Luxembourg (by: Francesco Viti)
4.25pm	4.30pm	Room Transition Break		
4.30pm	4.55pm	Health Impacts of Sydney's Bankstown Rail Line Closure: Implications for Travel Demand Management (by: Christopher Standen)	Exploring travel behaviour change through user-centric incentives (by: Corinne Mulley)	Public views on policies to promote cycling and micromobility: a Sydney case study (by: Stephen Greaves)
4.55pm	5pm	Room Transition Break		
5pm	5.30pm	Demographic-Based Correction Framework for Cross-Regional Transfer of Activity-Based Travel Demand Models (by: Yuanchen Ma)	Examining the Trade-off between Travel Time vs. Travel Opportunities in Choosing Multimodal Travel Options (by: Shamsunnahar Yasmin)	Shared Bike Availability Service Gap Measurement: A Case Study in Taipei City (by: Robert B.C Liu)
5.30pm	6pm	International Scientific Committee Meeting		
7pm	10pm	Conference Dinner Cruise (meet at 6.45pm at King Street Wharf 4)		

Time		Thursday 11th December		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Network Optimisation and Intelligent Traffic Systems, Session Chair: Prof. David Levinson	Theme: Transport Equity, Time Use, and Social Inclusion, Session Chair: Mr. David Surplice	Theme: Shared Mobility and Ride-Sourcing Innovations, Session Chair: Prof. Stephen Greaves
9am	9.25am	Penalty decomposition methods for second-best congestion pricing problems on large-scale networks (by: Wenxin Zhou)	Evaluating Transport Equity for the Public Transport Seasonal Pass: A Case Study of TPASS in Taiwan (by: Barbara T.H. Yen)	Reducing Unreliability in Ridepooling Systems Through Shareability Shadow (by: Amir Elmi)
9.25am	9.30am	Room Transition Break		
9.30am	9.55am	Zone-cut based approach for path-independent OD trip matrix estimation (by: Ruri Sase)	Who Owns Time? Socioeconomic Inequalities in Time Wealth and Well-being in the UK (by: Wafaa Saleh)	Beyond functionality: Psychological and social drivers of car-sharing use among tourists (by: Ching-Fu Chen)
9.55am	10am	Room Transition Break		
10am	10.30am	Application of Gamification to Alleviate Traffic Congestion on Expressways ~ Game Development and Demonstration in Hiroshima area ~ (by: Yoshiro Azuma)	Shared Micormbility and Social Inclusion: A Tale of Two Countries (by: Yuting Zhang)	User-organized Pre-pooled Ride-hailing: Exploring a New Mode (by: David Levinson)
10.30am	11am	Morning Tea		
		Parallel Session 1 (Level 17, Lecture room 3)	Parallel Session 2 (Level 16, Seminar room)	Parallel Session 3 (Level 16, Lecture room 5)
		Theme: Passenger Behaviour and Innovation in Public Transport, Session Chair: Prof. Corinne Mulley	Theme: Smart Freight and Urban Delivery Systems, Session Chair: Prof. Michael Bell	Theme: Walking, Accessibility, and Sustainable Mode Choice, Session Chair: Dr. Emily Moylan
11am	11.25am	Passenger acceptance of personalized passenger information in public transport (by: Michelle van Ardenne)	Multi-period operations optimization for passenger-freight shared transport: A game-theoretic approach (by: Yuxin Zheng)	Pedestrian Destination Choice Set Generation: A Hybrid Graph-Theoretic Approach (by: Fatemeh Nourmohammad)
11.25am	11.30am	Room Transition Break		
11.30am	11.55am	Personalised Incentives for Demand Management in Public Transport: A reverse-engineering Approach (by: Xia Zhou)	How Fast Is Too Fast? A Multi-Objective Optimization Ensuring Courier Safety in an On-Demand Meal Delivery System (by: Simon Hu)	Optimizing Passenger Walking at Drop-off with Anticipatory Methods in Ridepooling Systems (by: Xinyu Wang)
11.55am	12pm	Room Transition Break		
12pm	12.25pm	Stakeholder expectations towards the testing of autonomous, on-demand e-buses in the Maltese Islands (by: Karyn Scerri)	Extreme Heat and Road Safety: Assessing the Risks Faced by Delivery Riders in Urban India (by: Kamal Achuthan)	At what break-even distance does people shift to sustainable modes? A generalised cost approach for mode choice in short trips (by: Shamsunnahar Yasmin)
12.25pm	12.30pm	Room Transition Break		
12.30pm	1pm	Redefining Success in Demand Responsive Transport: A Context-Dependent Performance Evaluation Based on Service Intentions (by: Chia-Jung Yeh)	Fleet Sizing and Pricing for a Hybrid AVs-HVs Ride-Hailing Platform under Fulfillment Requirements (by: Xiaonan Li)	Assessing the predictive power of open-access walkability indices for walking behaviour (by: Ahmed El-Geneidy)
1pm	2pm	Lunch		
2pm	5pm	Technical Site Visits		