Wednesday 30 Sept

8:30-10 Welcome Address

10:30-12 Session A  Public Transit Surveys
Competition between busways and heavy rail system in South East Queensland, Australia
Barbara Yen, Wen-Chun Tseng, Corinne Mulley, Matthew Burke, Yu-Chiun Chiou and Lawrence Lan
Valuing Public Transport Service Quality using a Combined Rating & Stated Preference Survey
Neil Douglas
Behavioural findings of observed transit route choice strategies from the farecard data in Brisbane
Neema Nassir, Mark Hickman and Zhenliang Ma

Session B  Forecasts and Models I
2 Forecasting Australian Transport
David Gargett
Idea to impact: Framework for strategic management of investment in road transport research
Mike Shackleton and William Young
269 Forecasting transport demands and mobility in Remote Australia
Nicholas Holyoak, Bruno Spandonide, Michael Dockery, Branko Stazic and Rocco Zito

Session C  Pedestrian Models
213 Sensing and Perception Technology to Enable Real Time Monitoring of Passenger Movement Behaviours Through Congested Rail Stations
Alex Virgona, Nathan Kirchner and Alen Alempijevic
An empirically verified ‘Passenger Route Selection Model’ based on the principle of least effort for monitoring and predicting passenger walking paths through congested rail station environments
Fatma Al Widyan, Nathan Kirchner and Michelle Zeibots
Empirical study on pedestrian crowd behaviour in right angled junction
Nirajan Shiwakoti, Xiaomeng Shi, Zhirui Ye and Wei Wang

Session D  Freight
6 Impact of increasing container ship size on container handling productivity at Australian ports
Dr Renée Kidson, Thomas Rutherford, Dr Adam Malarz and Simon O’Mahony
35 Estimating Australian commodity freight movements: a linear programming approach
David Mitchell and Teddy Kurniawan
66 Dynamic on-board mass used for monitoring road condition and truck suspensions - Big Data from a widely distributed fleet of trucks
Roger Sack and Lloyd Davis
1:30-3 Session A  
Public Transit Policy I  
Access, amenity, and agglomeration: What can we expect from rapid transit projects?  
*Karl Baker and Peter Nunns*

The performance and potential of rail stations in and outside freeway medians: the application of a node/place model to Perth  
*Babb Courtney, Anthony Duckworth-Smith, Ryan Falconer, Richard Isted, Doina Olaru and Sharon Biermann*

Are network planning guidelines based on equal access equitable?  
*Corinne Mulley, Liang Ma, Geoffrey Clifton and Michael Tanner*

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Session B  
Forecasts and Models II  
Methodologies for updating parameter values for economic evaluation of road transport projects in Australia  
*Clifford Naude, Tariro Makwasha and Ed McGeehan*

Application of Streamline in Australian Cities  
*Michiel Jagersma, Cameron Reid and Dr Tomas Potesil*

What Effect do Queensland’s Major Road Infrastructure Projects have on Traffic Volumes and Growth Rates?  
*Wayne Davies*

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Session C  
Bikeshare  
Changes in Active Travel Before and After a Cycling Infrastructure Intervention  
*Stephen Greaves, Adrian Ellison, Richard Ellison and Chris Standen*

Bike share’s impact on active travel: evidence from the United States, Great Britain, and Australia  
*Elliot Fishman, Simon Washington and Narelle Haworth*

An artificial bee colony algorithm for the public bike repositioning problem  
*Chin Sum Shui and Wy Szeto*

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Session D  
Commercial Vehicles  
High Productivity Vehicle Access and Commodity Characteristics  
*John Dudgeon, Adam Pekol, Neil Findlay and Chris Bull*

Dispelling the Myths - Insights from the Sydney Commercial Vehicle Video Study  
*Shaun Tabone and Qingjian Jiang*

Modelling Sydney’s light commercial service vehicles  
*Richard Ellison, Collins Teye and David Hensher*

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3:30-5 Session A  
Public Transit Policy II  
The economics of financing and funding public transport projects  
*Ben Ellis and Neil Douglas*

Economic benefits of park and ride  
*Ian Wallis, Julie Ballantyne, Adam Lawrence, David Lupton and Doug Weir*
A review and assessment of fare capping as a passenger incentive mechanism for Australia and New Zealand

Reza Chalabianlou, Adam Lawrence and Brian Baxter

Session B Forecasts and Models III

276 Workzone Scheduling Optimisation
David Rey, Hillel Bargera, Vinayak Dixit and Travis Waller

Quality investigation and variability analysis of GPS travel time data in Sydney
Ruimin Li, Malcolm Bradley, Matthew Jones, Steven Moloney

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Clifford Naude, Tyrone Toole and Ed McGeehan

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Yun Bu and Tracey Pershouse

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Sahan Wijayaratna

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Jennifer Kent and Robyn Dowling

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Gwendaline Jossec and Olivia Shanahan

118 Modelling Supply Chains as Complex Networks for Investigating Resilience: An Improved Methodological Framework
Supun Perera, Michael Bell and Michiel Bliemer

267 A Proof-of-Concept Framework of Municipal Solid Waste Location Routing Problem
Hossein Asefi, Samsung Lim and Mojtaba Maghrebi

Thursday 1 October

8:30-10 Key Note

10:30-12 Session A Public Transit User Experience

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Nathan Kirchner, Sonja Caraian, Peter Colborne-Veel and Michelle Zeibots

57 Public Transport Comfort - An inclusive taxonomy of attributes
Robbie Napper, Selby Coxon and Mark Richardson

120 Investigating commuter train boarding and alighting dispersal by contemporary agent based modelling techniques
Selby Coxon, Tom Chandler and Elliott Wilson

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Jordi Casas, Aleix Ruiz de Villa, Martijn Breen, Josep Perarnau, Margarita Delgado and Alex Torday

A Network Wide Evaluation of the SCATS Ramp Metering System
Nima Amini, Kasun Wijayaratna, Hanna Grzybowaka and Travis Waller

Session A

3:30-5

Transit Corridor & Network Analysis

Bringing Better Buses to Brimbank- implementing bus network reform in Melbourne
Chris Loader, Naomi Langdon and Effie Robotis

Superior mobility achieved through an alternative to heavy rail – Melbourne south-east case study
Daniel Knol and John Stone

Evaluation of modal congestion management strategies at Melbourne corridor
Kaniz Fatima and Sara Moridpour

Session B

Travel Surveys

Novel methods in travel survey data collection
Taha Hossein Rashidi

Informing transport research by the use of social media
Rosemary Sharples

Integrating a Stated Choice Component with a Household Travel Survey
Doina Olaru and Brett Smith

Session C

Transit and Land use

Does residential property price benefit from light rail in Sydney?
Corinne Mulley, Chi-Hong Patrick Tsai and Liang Ma

Transforming Adelaide into a city of networked TODs using buses:
case study of the Adelaide OBahn
Andrew Allan, Munshi Nawaz and Matthew Fielke

The impact of a new bus route on a new suburban development in Melbourne
Alexa Delbosc, Graham Currie, Larissa Nicholls and Cecily Maller
A Learning Model for Traffic Assignment: Incorporating Bayesian Inference within the Strategic User Equilibrium Model
Tao Wen, Kasun Wijayaratna, Lauren Gardner, Vinayak Dixit and Travis Waller

Deploying a dynamic traffic assignment model for the Sydney region
Melissa Duell, Nima Amini, Sai Chand, Neeraj Saxena, Hanna Grybowski and Travis Waller

Anatomy of traffic assignment models
Michiel Bliemer, Mark Raadsen, Luuk Brederode, Michael Bell and Luc Wismans

Friday 2 October
8:30-10 Session A Transit Transfers & Connectivity
Improving the connectivity of an urban transit ferry network through integrated regular interval timetabling
Robin Sandell
Grade separations and improving intermodal transfer on mass transit networks
Ian Woodcock and John Stone
Missing the Connection? A case study approach to understanding effective public transit transfers in dispersed cities
Iain Lawrie and John Stone

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UK City Deals – adapting new thinking to Australia’s growth and funding challenges
Paul Low and Praveen Thakur
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Stephen Nurse, Mark Richardson and Robbie Napper
34 Motorcycles in Developing Asian Cities: A Case Study of Hanoi
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98 Probabilistic Benefit Cost Ratio (BCR)
Surya Prakash and David Mitchell

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Estimating economic impacts of transport investments using TREDIS: a case study on a National Highway Upgrade Program
Baojin Wang

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Zhitao Xiong, Vinayak Dixit and Travis Waller

212 Unsupervised Detection of Drivers’ Behavior Patterns
Zhang Li and Chen Cai

Electric Vehicles Adoption: Environmental Enthusiast Bias in Discrete Choice Models
Brett Smith, Stephen Greaves, Doina Olaru and Fakhra Jabeen

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Safety

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Vinayak Dixit

A decision support system for improving the management of traffic networks during disasters
Abbas Rajabifard, Russell Thompson, Arash Kaviani, Ged Griffin and Yiqun Chen

146 International Air Travel: Safety and Security in a Post-MH Climate
Matthew Beck, John Rose and Rico Merkert

Wrap Up