

Conference Program

CAITR '05 - 27th Conference of Australian Institutes of Transport Research
7-9 December 2005, Brisbane

Hosted jointly by the Queensland University of Technology and the University of Queensland

Wednesday, 7 December 2005

09.00 am Registration

10.00 am Morning Tea

10.30 am Session 1 (Chair: Dr Jon Bunker)

Transformation of the Australian Car Fleet: Likely Responses to Current and Projected Petrol Price

John Taplin and Zeenat Abdoolakhan, University of Western Australia

Design of a computer based survey instrument for modelling multimodal passenger demand

Omer Khan, Luis Ferreira, Jon Bunker (Queensland University of Technology) and Partha Parajuli (Redland Shire Council)

A Framework for Managing environmental Impacts arising from Trucks using Metropolitan Road Links

James Luk and Jencie McRobert, ARRB Group Ltd

Institutions for Urban Transport Sustainability: Case of Pakistan

Imran Muhammad, University of Melbourne

12.30 pm Lunch

01.30 pm Session 2 (Chair: Professor John Taplin)

Rushing ruins livelihoods: road safety in the taxi industry

Daniel Stewart, Herbert Biggs and Jeremy Davey, CARRS-Q, Queensland University of Technology

An investigation of attitudes towards risk factors, personal driving ability and road safety information among rural and remote road users

Gayle Sticher, CARRS-Q, Queensland University of Technology

Proof-of-concept: White-noisy road test and 'pipe test' to determine suspension parameters

Lloyd Davis, Queensland Department of Main Roads

3.00 pm Afternoon Tea

3.30 pm Session 3: (Chair: Dr Nariida Smith)

Choice factors in the adoption of alternative fuels and new technology vehicles: An SP approach

Zeenat Abdoolakhan, Doina Olaru, and Brett Smith

Evaluation of Toll Collection Facility Performance using Traffic Simulation

Nick Poon, Rowena Coghill and Hussein Dia, University of Queensland

An overview and assessment of the literature on land use-travel behaviour connections

Ali Soltani, University of South Australia

5.00 pm End of Wednesday Sessions

Thursday, 8 December 2005

9.00 am Session 4: (Chair: Dr Tu Ton)

Bus rapid transit corridors in Sydney for sustainable development
Upali Vandebona and Benoit Rossi, University of New South Wales

Fandangles, and all that jazz
Tony Richardson, The Urban Transport Institute

Development and evaluation of ramp metering algorithms
Sarintorn Winyoopadit and Hussein Dia, University of Queensland

10.30 am Morning Tea

11.00 am Session 5 (Chair: Dr Upali Vandebona)

Kelvin Grove Urban Village: The use of GIS in active transport planning
Matthew Gray and Jonathan Bunker, Queensland University of Technology

Better access to transport data must be good?
Nariida Smith and Leorey Marquez, CSIRO

Melbourne Urban Activity Patterns 1994-2002: Its Dynamic Mapping and Geographic Analysis
OZ Kayak, RMIT

12.30 pm Lunch

1.30 pm Session 6 (Chair: Dr Tony Richardson)

Multi-Objective Evaluation of Intermodal Freight Terminal Location Decisions
Ackchai Sirikijpanichkul and Luis Ferreira, Queensland University of Technology

The Structure of Supply Chain Transport Networks in Australia: More Modelling
David Wilson, Royal Melbourne Institute of Technology

Management of Competing Demands on Urban Freight Corridors
Euan Ramsay and Jonathan Bunker, Queensland University of Technology

3.00 pm Afternoon Tea

3.30 pm Session 7 (Chair: Dr David Wilson)

Implementation of Power-Based Fuel Consumption and Environmental Emissions Models in Traffic Simulation
Hussein Dia, Sakda Panwai, Noppakun Boongrapue (University of Queensland) and Tu Ton, Nariida Smith (CSIRO)

Modelling Route Choice Behaviour under the Influence of Real Time Information using Neural-Fuzzy Techniques
Sakda Panwai and Hussein Dia, University of Queensland

Modelling of vehicle emissions using traffic simulation
Noppakun Boongrapue and Hussein Dia (University of Queensland) and Rocco Zito (University of South Australia)

5.00 pm End of Thursday Sessions

7.00 pm Conference Dinner

Venue: River Canteen, The Boardwalk, South Bank

Friday, 9 December 2005

8.45 am Session 8 (Chair: Dr Jon Bunker)

Coordination and Real Time Optimisation of a Traffic Signal Control System Using Intelligent Agents

Suphasawas Nigarnjanagool and Hussein Dia, University of Queensland

Evaluation of the Impacts of Traffic Signal Control Parameters on Network Performance

Caroline Sutandi (Parahyangan Catholic University, Indonesia) and Hussein Dia (University of Queensland)

Towards Developing a Flexible Transport Management System

Nikolaos Vogiatzis, University of South Australia

Evaluating EBusiness in a Railway Environment: A Fuzzy Logic Decision Model Approach

Clara Tetther, Queensland University of Technology

10.30 am Morning Tea

10.45 pm Session 9 (Chair: Dr James Luk)

Fixed environment mapping using mobile laser sensors

Andrew M. Tulloh, CSIRO

Car following models review and a proposed unifying framework for measuring and modelling driver behaviour

Tu Ton (CSIRO) and Majid Sarvi (Monash University)

Microscopic, macroscopic and stability analysis of reactive agent-based car following models

Sakda Panwai and Hussein Dia, University of Queensland

Evaluation of benefits of incident management on the arterial and motorway road networks using micro simulation

William Gondwe (Queensland Main Roads) and Hussein Dia (UQ)

12.30 pm Lunch

1.30 pm Session 10: Research Summaries (Chair: Dr H Dia)

Akcelik & Associates

ARRB

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QUT

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TUTI

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End of Conference