Programme

Tuesday 18th June 2013

17:30 Reception

18:00 Mark Wallace (Monash University and Opturion)
Public Lecture: *Cheap solutions to the transport problem*

Wednesday 19th June 2013

8:45 **Coffee – Registration**

9:15 **Welcome**

9:30 Serge Hoogendoorn (Delft University of Technology)
A primer in traffic flow modeling and management

10:30 **Coffee break**

11:00 William Moase (The University of Melbourne)
A distributed real-time optimisation approach suited to traffic signalling

11:35 Tung Le (Swinburne University of Technology)
Linear-quadratic model predictive control for urban traffic networks

12:10 Hai Vu (Swinburne University of Technology)
Real-time route guidance in stochastic networks

12:45 **Lunch**

13:45 Adrian George (VicRoads)
Managing traffic flow on urban road networks

14:20 Mohsen Songhori (The University of Melbourne)
Implications of patterned interactions in complex systems for the structure of decision making organization

14:55 Kelvin Goh (Monash University)
A mixed logit modelling approach to investigating at-fault accidents

15:30 **Coffee break**

16:00 Travis Waller (The University of New South Wales)
Transport network equilibrium models incorporating adaptivity and volatility

17:00 **Close**

Thursday 20th June 2013

9:15 **Coffee break**

9:30 Pascal Van Hentenryck (NICTA)
Optimization over transportation networks

10:30 **Coffee break**

11:00 Jan Richter (IBM)
Modelling and simulation of bushfire evacuation scenarios with refuge options

11:35 Amir Sobhani (Monash University)
Road safety modelling using a safety analysis chain: A theoretical discussion

12:10 Jörg Fliege (University of Southampton)
Some new approaches in bilevel optimization

12:45 **Lunch**

13:45 Michael Rigby (The University of Melbourne)
An opportunistic client user interface to support centralized ride share planning

14:20 Andreas Ernst (CSIRO)
Rail scheduling for the hunter valley coal chain

14:55 Stephan Winter (The University of Melbourne)
Collaborative transportation: a case for computational transportation science

15:30 **Coffee break**

16:00 Jürg von Känel (IBM)
Large scale traffic modelling from city planning to emergency evacuations

17:00 Vinayak Dixit (The University of New South Wales)
Behavioural foundations of two-fluid model for urban traffic

17:35 **Mathematicians in Schools (Gill Lunniss)**

18:00 **Reception**

18:30 **Conference dinner**
(Monash University Club, Clayton Campus, Building 50)

Friday 21st June 2013

9:15 **Coffee break**

9:45 Katsuhiro Nishinari (The University of Tokyo)
Jamology - traffic jams of self-driven particles

10:45 **Coffee break**

11:20 Allison Kealy (The University of Melbourne)
A distributed real-time optimisation approach suited to traffic signalling

11:55 Heng-Soon Gan (The University of Melbourne)
Coordinated emergency evacuation

12:30 Tim Garoni (Monash University)
A comparative study of Macroscopic Fundamental Diagrams of arterial road networks governed by adaptive traffic signal systems

13:05 **Lunch**

14:10 David Shteinman (The Australian Centre for Commercial Mathematics at UNSW)
Three case studies of traffic flow modelling with real traffic data

14:45 Lele Zhang (Monash University)
Traffic disruption and recovery in road networks

15:20 **Coffee break**

15:55 Majid Sarvi (Monash University)
A quantitative measure for the lifetime analysis of transport networks

16:55 **Closing remarks**