Monday, June 16th

17:00 - 19:00 Registration

Tuesday, June 17th

08:30 - 09:20 Late Registration

Introduction

09:20 - 12:10 Day to Day Dynamics (A)

Chair: M.J. Smith

Examination of day-to-day dynamical models by results of information transmission experiments
Iryo, T. and Ishihara, K.

Evolution model based on marginal decision rule
He, X. and Peeta, S.

Modelling day-to-day travellers’ route choice using real-time estimated traffic state with time-varying traffic demand
Ahmed, A. Watling, D.P. and Ngoduy, D.

Coffee break (20 min)

Day to Day Dynamics (B)

Chair: S. Peeta

Asymptotic and stability analysis of a stochastic process dynamic traffic assignment model
Cantarella, G.E. and Watling, D.P.

An experimental analysis for a day-to-day switching behaviour model
De Maio, M., Vitetta, A. and Watling, D.P.

Advanced traveller information systems under recurrent traffic conditions: network equilibrium and stability
Smith, M.J.
12:10 - 13:00 Invited Lecture
Chair: G.E. Cantarella
Traffic Control and route choice
Smith, M.J.

13:00 - 14:30 Break for Lunch

14:30 - 16:10 Day to Day Dynamics (C)
Chair: D. Watling
A bi-level model of dynamic traffic signal control with continuum approximation
Han, K. Sun, Y. Liu, H. Friesz, T. and Yao, T.
A generic objective function decomposition for distributed anticipatory optimal network control
Rinaldi, M. and Tampère, C.
An adaptive flow anticipatory control using day-to-day iterative learning in urban traffic networks
Huang, W., Tampère, C. and Viti, F.
Optimal pricing of day-to-day flow dynamics
Xiao, F. Ye, H. Yang H.

16:10 - 17:00 Invited Lecture
Chair: G.E. Cantarella
Dinamic and quasi-dynamic estimation of od flows using traffic counts and other data sources
Cascetta, E.

17:00 - 18:00 SAC meeting
08:30 - 13:00 Within Day Dynamics (A)

Chair: M. Bliemer

Information comply model - new model to represent rerouting phenomena in dynamic traffic assignment
Kucharski, R., Gentile, G. and Meschini, L.

Multi-user class, simultaneous route and departure time choice dynamic traffic assignment with an embedded spatial queuing model
Zhan, X. and Ukkusuri, S. V.

Implementation of an efficient dynamic network loading scheme within the class of link transmission models
Himpe, W., Corthout, R. Tampère, C.

A cell transmission model with lane changing by lane-based fundamental diagram, assimilating lane speed observations and incorporation of uncertainty
Zhong, R., Pan, T., Zhong, Sumalee, A. and Lam, W. H.K.

Comparative evaluation of performances of two mesoscopic approaches to dynamic network assignment
Dell’Orco, M., Celikoglu, H.B., Marinelli, M. and Silgu, M. A.

Coffee break (20 min)
Within Day Dynamics (B)
Chair: S. Ukkusuri

Solving a dynamic traffic assignment model with implicit path enumeration using gradient projection algorithms
Gentile, G.

Granularity of floating car data and dynamic within day macroscopic models: is a quasi-dynamic approach suitable?
Colombaroni, C., Comelli, L. and Fusco, G.

Vehicle spillback on dynamic traffic networks and what it means for dynamic traffic assignment models
Han, K. Friesz, T. and Yao, T.

Stochastic analytical dynamic queueing network model with spill-back
Flottered, G. and Osorio, C.

A unified framework for traffic assignment: deriving static and quasi-dynamic models consistent with general first order dynamic traffic assignment models
Bliemer M. C.J. Raadsen, M.P.H. Brederode, L. Bell M. G.H. and Wismans, L. J.J.

13:00 - 14:30 Break for Lunch
14.30 - 19.00 Within Day Dynamics (C)
Chair: B.G Heydecker

Dynamic user optimal flow under departure
time choice and variable tolerances
Ge, Y.E., Zhang, S., Szeto, W.Y.,
Zhang, H.M., Zhou, X.

Introducing the core probability framework
and discrete - element core probability model
for efficient stochastic macroscopic modelling
Calvert, S. Taale, Het Snelder, M.
and Hoogendoorn, S.

Analysis of two-fluid model and application
for dynamic traffic assignment in indian
traffic conditions
Chakhaborty, S. Srinivasan, K.K
and Ramadurai, G.

A semi-dynamic traffic assignment model with
unique and continuous equilibrium flow
Nakayama, S. and Connors, R.

An intersection-movement-based stochastic
dynamic traffic assignment mode
Long, H. and Szeto, W.Y.

Coffee Break (20 min)
Within Day Dynamics (D)
Chair: H. Lo

Dynamic tolling and dynamic equilibria
Heydecker, B.G. and Davis, G.

Dynamic traffic assignment and the parking search process
Boyles, S.D. Tangy, S and Unnikrishnanz, S.

Representation of queue propagation and realistic travel times in dynamic network loading models
Raovic, N., Nielsen, O.A. and Prato, C.G.

Signal setting design based on mesoscopic network simulation
de Luca, S., Di Gangi, M., Di Pace, R. and Memoli, S.

Analysis of large traffic data set: congestion charge area in Milan
Mussone, L. and Cantarella, G.E.
Thursday, June 19th

08:30 - 13:00 Choice Modelling and Demand estimation
Chair: T. Iryo

Formulation, existence, and computation of simultaneous route-and-departure choice bounded rationality dynamic user equilibrium with fixed or endogenous user tolerance
Han, K., Friesz, T., Yao, T. and Szeto W.Y.

Estimation of dynamic origin-destination matrices in congested networks with implicit route choice
Himpe, W., Ton, D., Corthout, R. and Tampère, C.

Integration of dynamic traffic assignment with a travel demand model based on synthetic population for Stockholm region
Berglund, S. Canella, O. Engelson, L. Flötteröd, G. and Jonsson, D.

Incorporating dynamic reference points in a prospect theory model of travel behaviour
Avineri, E.

Sequential dynamic discrete choice model: theory and application
Russo, F. and Chillà, G.

Coffee Break (20 min)

Transit
Chair: T. Friesz

Incorporating network reliability in a schedule-based transit assignment model
Khani, A. and Hickman, M.

Frequency-based transit assignment revisited
Bell, M.G.H. Bliemer M.C.J. and Raadsen, M.P.H.

Schedule-based dynamic transit assignment including individual traveller information
An, K. and LO, H.K
Robust transit network design with stochastic demand  
An, K. and LO, H.K

A joint day-to-day mode and within-day departure time choice model for the analysis of dynamic ridesharing  
Viti, F. and Corman, F.

13:00 - 14:30 Break for Lunch

14:30 - 17:45 Evacuation  
Chair: C. Tampère

Unidirectionality: a property of single destination system optimal dynamic traffic assignment that allows efficient optimization of evacuation  
Nassir, N. and Hickman, M.

Continuous-time dynamic user equilibrium model with departure-time choice and capacitated queue  
Rui, M., Ban, X. and Pang, J.S.

On the computation of time dependent shortest paths for simulation-based dynamic traffic assignment applications  
Zhou, X. and Ruiz, J.N.

A mesoscopic approach to model path choice in emergency condition  
Di Gangi, M. and Polimeni, A.

Dynamic traffic assignment of multimodal freight transport  
Pel, A. and Zhang, M.

Coffee break (20 min)

A path enumeration algorithm for strategic system optimal dynamic traffic assignment  
Rey, D. Duell, M. and Dixit, V. V. and S. Travis Waller

Modelling motorways of the sea: an application to assignment problems  
Di Febbraro, A, Sacco, N. and Baudà, A.

17:45 - 18:00 Conclusions

21:00 - 23:00 Social dinner, and presentation of possible venues for DTA2016
08:30 - 18:30 Poster session
Posters will be pinned to the walls of the room where the symposium will be held. Authors may discuss them with interested people during coffee breaks, lunch breaks or after the sessions.

1. Analysis and modelling the effects of information on travellers’ behaviour within a day-to-day dynamics framework
   Bifulco, G.N., de Luca, S. and Di Pace, R.

2. Subnetwork analysis for dynamic traffic assignment models: impacts of subnetwork size and stochastic model components
   Bringardner, J. Gemar, M. Ruiz, N. Boyles S. and Machemehl R.

3. A hybrid optimisation method for network signal setting design
   Di Pace, R. and Memoli, S.

4. Generating speed profiles for environmental impacts analyses using dynamic traffic assignment vehicle trajectories
   Duell, M. Levin, M. and Waller S. T.

5. Continuous-time instantaneous dynamic user equilibria on a real world traffic network
   Ma, R. and Ban X.

6. Application of multi-level transport model for the tristar system
   Oskarbski, J. Jamroz, K. and Birr, K

7. Application of dynamic traffic assignment simulation models under indian traffic conditions
   Parvathy V. S and Ramadurai, G.
8. Modelling of bottlenecks and queues in road networks revisiting the fundamental diagram
Prameswari, N. Nielsen, O.A. and Prato, C.G.

9. An efficient event-based algorithm for solving first order dynamic network loading problems
Raadsen, M.P.H. Bliemer M. and Bell M. G.H.

10. A multi-source data fusion model for short-term travel time prediction
Yuan, F. Zhong, R. and Yang, Z.
The Scientific Advisory Committee

- Michiel Bliemer, University of Sydney
- David Boyce, Northwestern University
- Giulio E. Cantarella, University of Salerno
- Malachy Carey, Queen’s University Belfast
- Terry L. Friesz, Pennsylvania State University
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- Mike J. Smith, University of York
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- Satish V. Ukkusuri, Purdue University
- David P. Watling, University of Leeds

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- Stefano de Luca, University of Salerno
- Massimo Di Gangi, University of Messina
- Roberta Di Pace, University of Salerno
- Silvio Memoli, University of Salerno

Organizing Secretary:

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