

# DTA 2006: First International Symposium on Dynamic Traffic Assignment

Centenary Gallery, Parkinson Building, University of Leeds, UK

June 21<sup>st</sup>–23<sup>rd</sup> 2006

## *Programme*

Wednesday 21<sup>st</sup> June

09:00 – 10:00 Registration

10:00 Welcome to DTA2006

Watling, Balijepalli, Connors & Sumalee

*Session 1: Properties of dynamic network loading models*

10:15 Analysis Of Dynamic Traffic Assignment

Heydecker & Addison

10:45 Analysis and comparison of macroscopic approaches to Dynamic Traffic Assignment

Cantarella, Carteni, de Luca & Punzo

11:15 Coffee break

*Session 2: Dynamic link models*

11:45 Dynamic Queuing & Spillback in Analytical Multiclass Dynamic Traffic Assignment Model

Bliemer

12:15 Multi-Commodity Dynamic Network Loading with Kinematic Waves and Intersection Delays

Tampere & Yperman

12:45 A Dynamic Network Loading Model Based on the Variations Solution Procedure

Blumberg & Bar Gera

1:15 Lunch

*1:45-2:45 Session 3: Poster session on Dynamic network loading*

Application of a New Dynamic Traffic Assignment Model for Assessment of Moving Bottlenecks

Juran, Prashker, Bekhor & Ishai

A Graph-Based Formulation For The Single Destination Dynamic Traffic Assignment Problem

Kalafatas & Peeta

The Enhanced Lagged Cell-Transmission Model

Szeto

Route Generation and Dynamic Traffic Assignment for Large Networks

Taale & Bliemer

Time and Space Discretization in Dynamic Traffic Assignment Models

Gentile, Nöckel & Meschini

*Session 4: Dynamic network loading*

2:45 – 3:45 Panel Discussion I. Dynamic Network Loading: Which Models and What Level of Space/Time Discretisation are Appropriate?  
Peeta (chair), Juran, Szeto, Taale, Gentile

3:45 Coffee break

*Session 5: Dynamic network assignment models*

4:15 A Simulation Based Dynamic Traffic Assignment Model: Dynameq  
Florian, Mahut & Tremblay

4:45 Traffic Assignment On Networks With Time-Varying Flows, While Approximating Continuum Flows On Links  
Carey

5:15 Close for the day. Participants make their own dinner arrangements.

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Thursday 22<sup>nd</sup> June

*Session 6: Formulation and Properties of DUE Models*

09:00 The Development of a Probit-Based Stochastic Dynamic Traffic Assignment Model  
Maher & Rosa

09:30 Analysis of Dynamic System Optimum and Externalities with Departure Time Choice  
Chow

10:00 Existence, Uniqueness, Stability and Bilevel Optimisation Of Dynamic Traffic Equilibria  
Golanski, Mounce & Smith

10:30 Dynamic Non-cooperative Games as a Foundation for Modeling Dynamic User Equilibrium  
Friesz, Mookerherjee & Kwon

11:00 Coffee break

*Session 7: DUE solution algorithms*

11:30 A Link-Node Complementarity Model and Solution Algorithm for Dynamic User Equilibria with Exact Flow Propagation

Ban, Liu, Ferris & Ran

12:00 Inner Approximation Algorithm for the Discrete Time Varying User Equilibrium Problem

Chang & Ziliaskopoulos

12:30 Descent Direction Based Solution Algorithm for DUE Assignment

Sumalee & Kuwahara

1:00 Lunch

*1:30-2:30 Session 8: Poster session on Deployment of DTA models*

Obstacles to Deployment of Dynamic Traffic Assignment Models

Ziliaskopoulos & Barratt

Observability In Estimating Time Dependent Origin Destination Flows From Traffic Counts

Balakrishna, Ben-Akiva & Wen

Dynamic Origin-Destination Matrix Estimation From Link Counts: An Approach Coherent With Dynamic Traffic Assignment

Durlin & Henn

Behavior-Consistent Deployable Traffic Routing under Information Provision

Paz & Peeta

*Session 9: Deployment of DTA models*

2:30 – 3:30 Panel discussion 2. Challenges to the Real-Life Deployment of DTA Models.

Florian (chair), Ziliaskopoulos, Balakrishna, Taale, Peeta, Waller

3:30 Coffee break

3:45 Coaches depart to take participants to Yorkshire Sculpture Park for ...

- Philosophical session: Future of DTA? (details to follow)
- Discussion of, and vote on, future conference plans, dates, venues
- Conference Dinner

10:00 Coaches return to Leeds

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## Friday 23<sup>rd</sup> June

### *Session 10: Day-to-day dynamic models*

09:00 Modeling of Commuters' Day-to-Day Learning Behavior  
Ozbay & Yanmaz-Tuzel

09:30 Doubly Dynamic Simulation Model for Traffic Assignment  
Balijepalli, Watling & Liu

10:00 The Dynamic Assignment of Tours in Congested Networks with Pricing  
Polak & Heydecker

10:30 Coffee break

### *Session 11: Dynamic Congestion Pricing*

11:00 Day-to-day Congestion Pricing Policies towards System Optimal  
Yang & Szeto

11:30 A Computable Theory of Dynamic Congestion Pricing  
Friesz, Kwon & Mookerherjee

12:00 Temporal Externality in Dynamic User Equilibrium with Heterogeneous Travellers  
– Who Makes Congestion Worse?  
Iryo

12:30 Lunch

### *1:00 – 2:00 Session 12: Poster session on Alternative models and problems for DTA*

Stability Domains of Traffic Equilibrium: Directing Traffic System Evolution to Equilibrium  
Lo & Bie

Equilibrium Dynamic Traffic Assignment with Adaptive Routing Choices  
Gao

Stability of Network Flows with Bounded Rational Route Choice  
Nakayama

Dynamic Simulation-Based Model of Urban Taxi Services  
Song & Tong

Combining DTA Approaches for Studying Road Network Robustness  
Li, Taale & Van Zuylen

### *Session 13: Equilibrium versus non-equilibrium DTA*

2:00 – 3:00 Panel discussion 3. Non-Equilibrium And Other Alternatives To Dynamic User Equilibrium: What Potential Do They Offer?

Lo (chair), Cantarella, Gao, Li, Nakayama, Ramadurai

3:00 Coffee break

*Session 14: Public transport*

3:30 A First Approach to Dynamic Frequency-Based Transit Assignment  
Schmöcker, Bell & Kurauchi

4:00 Towards a Holistic Frequency-Based Transit Assignment Model– The Stochastic Process  
Approach  
Teklu

4:30 Closing session: Discussion of publication plans, future symposia

5:00 Conference closes

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Updated 12 June 2006.