### LATSIS 2012 Technical Program Tuesday September 4

**Summer School (9:00-17:30, Room AAC008)**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00-10:00</td>
<td>Prof. Yafeng Yin, Un. Of Florida A Primer on Congestion Pricing of Urban Transportation Networks</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>Break</td>
</tr>
<tr>
<td>10:15-11:15</td>
<td>Dr. Emma Frejinger, KTH Royal Institute of Technology Discrete choice models and transport applications</td>
</tr>
<tr>
<td>11:15-11:30</td>
<td>Break</td>
</tr>
<tr>
<td>11:30-14:00</td>
<td>Prof. Antonio Antunes, Un. Of Coimbra Analysis and optimization of logistics systems</td>
</tr>
<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-15:00</td>
<td>Prof. Richard (Eddie) Wilson, University of Southampton Some principles in the parameterisation of microsimulation models</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td>Break</td>
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<tr>
<td>15:15-16:15</td>
<td>Prof. Ben Heydecker, University College London Traffic management schemes for congested networks</td>
</tr>
<tr>
<td>16:15-16:30</td>
<td>Break</td>
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<tr>
<td>16:30-17:30</td>
<td>Prof. Shlomo Bekhor, Technion - Israel Institute of Technology The Tel Aviv activity schedule model system</td>
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<tr>
<td>18:30-20:30</td>
<td>Welcome Reception at Cafeteria BC</td>
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### LATSIS 2012 Technical Program Wednesday September 5, 2012 (8:30-18:00)

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30-10:15</td>
<td>Welcome</td>
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<tr>
<td>10:15-10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-12:10</td>
<td>Parallel Sessions (A) Room AAC008 (A1) Room AAC014 (A2) Room AAC020 (A3) Room AAC108 (A4) Choice Models Traffic Data Traffic Assignment Railway Operation</td>
</tr>
<tr>
<td>12:10-13:30</td>
<td>Lunch (Cafeteria BC)</td>
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<tr>
<td>13:30-15:00</td>
<td>Prof. Hani Mahmassani, Northwestern University (US) Travel time reliability: A network-level perspective</td>
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<tr>
<td>15:00-15:10</td>
<td>Coffee Break</td>
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<tr>
<td>15:10-16:30</td>
<td>Parallel Sessions (B) Room AAC008 (B1) Room AAC014 (B2) Room AAC020 (B3) Freight Pedestrian Route Choice and control Land Use (I) Transportation Networks</td>
</tr>
<tr>
<td>16:30-16:40</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>16:40-18:00</td>
<td>Parallel Sessions (C) Room AAC008 (C1) Room AAC014 (C2) Room ACC020 (C3) Room AAC108 (C4) Room AAC137 (C5) Value of Travel Connected Scheduling and Routing Logistics (I) Network Use and Design</td>
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<tr>
<td>18:15-19:00</td>
<td>hEART meeting (by invitation), Room AAC008</td>
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**Keynote speaker:** Prof. Carlos Daganzo, UC Berkeley (US) Traffic congestion in networks, and alleviating it with public transportation and pricing

**Keynote speaker:** Prof. Nigel Wilson, MIT (US) Roles for richer data and better analysis in improving the effectiveness of transit systems
LATSIS Technical Program Thursday September 6, 2012 (8:45-16:55)

08:45-10:15, Room SG1

Keynote speaker: Prof. Amedeo Odoni, MIT (US)
Demand smoothing at hub airports and its system-wide impact on delays

Keynote speaker: Prof. Serge Hoogendoorn, TU Delft (NL)
Innovations in behavioral research using serious gaming: results and challenges

10:15-10:30 Coffee Break

10:30-12:10 Parallel Sessions (A)

Room AAC008 (A1) Public Transportation (I) Room AAC108 (A4) Logistics (II)
Room AAC14 (A2) Traffic Flow Theory Room AAC020 (A3) Travel Behavior
Room AAC008 (A1) Public Transportation (I) Room AAC108 (A4) Logistics (II)

12:10-13:30 Lunch (Cafeteria BC)

13:30-15:00, Room SG1

Keynote speaker: Prof. Richard Arnott, UC Riverside (US)
Traffic congestion and land use over a metropolitan area: a modern look at a classic problem

Keynote speaker: Prof. Ennio Cascetta, Un. of Naples (IT)
A new look at planning and designing transportation systems: markets, decision-making models and the roles of quantitative methods

15:00-15:15 Coffee Break

15:15-16:55 Parallel Sessions (B)

Room AAC008 (B1) Public Transportation (II) Room AAC008 (B1) Public Transportation (II)
Room AAC14 (B2) Traffic Flow Modeling Room AAC14 (B2) Traffic Flow Modeling
Room AAC020 (B3) Congestion Pricing Room AAC020 (B3) Congestion Pricing
Room AAC108 (B4) Land Use (II) Room AAC108 (B4) Land Use (II)

19:00-22:30 Gala Dinner Cruise

LATSIS 2012 Technical Program Friday September 7, 2012 (8:30-17:10)

8:30-10:10 Parallel Sessions (A)

Room AAC008 (A1) Public Transportation (I) Room AAC108 (A4) Topics in Activity-based Models and Traffic Assignment
Room AAC14 (A2) Macroscopic Fundamental Diagrams
Room AAC020 (A3) Transportation Economics

10:10-10:20 Coffee Break

10:20-12:35, Room SG1

Keynote speaker: Prof. SC Wong, TU Hong Kong (HK)
A continuum modeling approach to the interactions of land use, transport and the environment for a polycentric city

Keynote speaker: Prof. Dirk Helbing, ETHZ (CH)
A guided tour through the wonderful world of transportation

Keynote speaker: Prof. Kai Nagel, TU Berlin (DE)
Transport simulation as a complex adaptive system

12:35-14:00 Lunch (Cafeteria BC)

14:00-15:20 Parallel Sessions (B)

Room AAC008 (B1) OR/Logistics Room AAC108 (B4) Transportation Planning
Room AAC14 (B2) Traffic Flow and Control Room AAC20 (B3) Road Safety
Room AAC020 (B3) Traffic Flow and Control

15:20-15:30 Coffee Break

15:30-17:00, Room SG1

Keynote speaker: Prof. Mike Bell, Imperial College (UK)
A cost-based maritime container assignment model

Keynote speaker: Prof. Eric Miller, U Toronto (CA)
Agent-based microsimulation modeling of urban spatial processes

17:00-17:10 Closing
**Wednesday September 5, 2012**

**WeA1 Room AAC008 10:30-12:10**

### Choice Models

**Chair:** Emma Freijinger

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<td>Paper WeA1.1</td>
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<td>10:50-11:10</td>
<td>Paper WeA1.2</td>
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**Hybrid choice models, structure, identification and estimation (paper 63)**

- Thij Dekker  
  University of Leeds
- Stephane Hess  
  University of Leeds
- Andrew Daly  
  RAND Europe and ITS Leeds

**Hybrid choice modeling allowing for reference-dependent preferences: the case of alternative-fuel vehicles in denmark (paper 138)**

- Stefan Lindhard Mabit  
  Technical University of Denmark
- Elisabetta Cherchi  
  Technical University of Denmark
- Anders F. Jensen  
  Technical University of Denmark
- Jørgen Jordal-Jærgensen  
  Cowi

**Dynamic vehicle ownership forecasting: advances in modeling inter-temporal choice (paper 170)**

- Amanda Stathopoulos  
  École Polytechnique Fédérale de Lausanne
- Aurélie Glerum  
  École Polytechnique Fédérale de Lausanne
- Michael Thémans  
  École Polytechnique Fédérale de Lausanne
- Michel Bierlaire  
  École Polytechnique Fédérale de Lausanne

**Modeling traffic flow dominated by motorcycles based on discrete choice approach (paper 50)**

- Yasuhiro Shiomii  
  Kyoto University
- Teruaki Hanamori  
  Kyoto University
- Nobuhiro Uno  
  Kyoto University
- Hiroshi Shimamoto  
  Kyoto University

**A Route Guidance Model Based on System Optimality Level and Deterministic Route Choice Behavior (paper 8)**

- Babak Mirbaha  
  Tarbiat Modares University
- Mahmoud Saffarzadeh  
  Tarbiat Modares University
- Seyed Ehsan Seyed Abrishami  
  Tarbiat Modares University

**WeA2 Room AAC014 10:30-12:10**

### Traffic Data

**Chair:** Armando Bazzani

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<td>10:30-10:50</td>
<td>Paper WeA2.1</td>
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**Unscented Kalman Filter for freeway traffic state estimation using multiple data sources (paper 19)**

- D Ngoduy  
  University of Leeds

**Towards data-driven models for traffic congestion in urban road-networks (paper 39)**

- Armando Bazzani  
  University of Bologna
- Sandro Rambaldi  
  University of Bologna
- Monica Marchioni  
  University of Bologna

**Using mobile vehicle probes to estimate network-wide traffic conditions (paper 46)**

- Vikash Gayah  
  University of California, Berkeley
- Vinayak Dixit  
  University of New South Wales

**An algorithm for integrating heterogeneous urban traffic data (paper 117)**

- Andy Chow  
  University College London
- Ioannis Tsapakis  
  University College London
- Ed Manley  
  University College London
- Garavig Tanaksaranon  
  University College London
- Benjamin Heydecker  
  University College London
- Tao Cheng  
  University College London
- Andy Emmonds  
  Transport for London

**The relation between data quality and traffic management investigated for a simple route choice model (paper 173)**

- Gerdien Klunder  
  Delft University of Technology
- Henk Taale  
  Delft University of Technology
- Serge Hoogendoorn  
  Delft University of Technology

**WeA3 Room AAC020 10:30-12:10**

### Traffic Assignment

**Chair:** Jaume Barceló

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<tr>
<td>10:30-10:50</td>
<td>Paper WeA3.1</td>
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**Dynamic assessment of large scale multimodal transport systems (paper 171)**

- Gijbert van Eck  
  Delft University of Technology
- Robert van Nes  
  Delft University of Technology

**Comparison of path flow reassignment methods for dynamic user equilibrium traffic assignment based in mesosimulation (paper 57)**

- Mari Paz Linares  
  Universitat Politècnica de Catalunya
- Jaume Barceló  
  Universitat Politècnica de Catalunya

**The effect of signalized intersections on dynamic traffic assignment solution stability (paper 81)**

- Michal Blumberg Nitzani  
  Ben-Gurion University of the Negev
- Hillel Bar-Gera  
  Ben-Gurion University of the Negev

**Upright Stiff – Improved Conjugate Frank-Wolfe methods through subproblem solution updating (paper 140)**
### LATSIS Symposium 2012

**Johan Holmgren**  
Blekinge Institute of Technology, Karlskrona

**Per Olov Lindberg**  
KTH Royal Institute of Technology

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<th>Authors</th>
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<tr>
<td>11:50-12:10</td>
<td>Paper WeA3.5</td>
<td>Sampling of alternatives for spatial choice modeling (paper 71)</td>
<td></td>
<td>Andrew Daly, Thij斯 Dekker, Stephane Hess</td>
</tr>
<tr>
<td>10:30-12:10</td>
<td>WeA4 Room AAC108</td>
<td>Railway Operation</td>
<td>Chair: António Antunes</td>
<td>Yihui Wang, Bart De Schutter, Ton van Den Boom, Bin Ning</td>
</tr>
<tr>
<td>10:30-10:50</td>
<td>Paper WeA4.1</td>
<td>Optimal trajectory planning for trains under operational constraints using mixed integer linear programming (paper 38)</td>
<td></td>
<td>Ronghui Liu, Anthony Whiteing, Andrew Koh</td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>Paper WeA4.2</td>
<td>A model of fault tolerance approach to train operations at a classic railway junction (paper 61)</td>
<td></td>
<td>Kentaro Wada, Takashi Akamatsu, Minoru Osawa</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>Paper WeA4.3</td>
<td>A control strategy to prevent propagating delays in high-frequency railway systems (paper 67)</td>
<td></td>
<td>Ennio Cascetta, Pierluigi Coppola</td>
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<tr>
<td>11:30-11:50</td>
<td>Paper WeA4.4</td>
<td>Induced demand models for high speed railways (paper 135)</td>
<td></td>
<td>Hugo Repolho, António Antunes, Richard Church</td>
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<tr>
<td>11:50-12:10</td>
<td>Paper WeA4.5</td>
<td>High speed rail planning – a combined strategic model with supporting tactical model components (paper 9)</td>
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**Web1 Room AAC008  15:10-16:30**

### Route Choice

**Chair:** Francesco Viti

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<tr>
<td>15:10-15:30</td>
<td>Paper WeB1.1</td>
<td>Estimating flexible route choice models using sparse data (paper 32)</td>
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<td>Giselle M. Ramos, Emma Freijinger, Winnie Daamen, Serge P. Hoogendoorn</td>
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<td>15:30-15:50</td>
<td>Paper WeB1.2</td>
<td>Route choice model estimation in a dynamic network based on GPS data (paper 98)</td>
<td></td>
<td>We Huang, Francesco Viti, Ben Immers, Chris Tampère</td>
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<tr>
<td>16:10-16:30</td>
<td>Paper WeB1.3</td>
<td>Day-to-day dynamic signal control and route choice in traffic networks (paper 158)</td>
<td></td>
<td>Sebastian Raveau, Louis De Grange, Felipe Gonzalez</td>
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**Web2 Room AAC014  15:10-16:30**

### Traffic modeling and control

**Chair:** Carolina Osorio

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<tr>
<td>15:10-15:30</td>
<td>Paper WeB2.1</td>
<td>All-Red Time Design accounting for the Interaction between the Clearing Vehicle and the Entering Vehicle (paper 30)</td>
<td></td>
<td>Yukiko Otashiro, Masao Kuwahara, Keshuang Tang</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>Paper WeB2.2</td>
<td>Capturing dependency among link boundaries in a stochastic network loading model (paper 193)</td>
<td></td>
<td>Carolina Osorio, Gunnar Flötteröd</td>
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<tr>
<td>15:50-16:10</td>
<td>Paper WeB2.3</td>
<td>Integrated corridor management in the U.S. – analysis modeling and simulation (paper 2)</td>
<td></td>
<td>Vassili Alexiadis, Cambridge Systematics</td>
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### LATSIS Symposium 2012

**WeB3 Room AAC020 15:10-16:30**  
**Land Use (I)**  
Chair: Constantinos Antoniou

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<tr>
<td>15:10-15:30</td>
<td>Paper WeB3.1</td>
<td>A meta-analysis of the impact of rail projects on land and property values (paper 20)</td>
<td>Sara I. Mohammad (Imperial College London), Daniel J. Graham (Imperial College London), Patricia Melo (Imperial College London)</td>
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<tr>
<td>15:30-15:50</td>
<td>Paper WeB3.2</td>
<td>Coupling transport and land-use: investigating accessibility indicators for feedback from a travel to a land use model (paper 35)</td>
<td>Thomas Nicolai (Berlin Institute of Technology), Kai Nagel (Berlin Institute of Technology)</td>
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<tr>
<td>15:50-16:10</td>
<td>Paper WeB3.3</td>
<td>Towards a cellular automata based land-use transportation model (paper 131)</td>
<td>Nuno N. Pinto (University of Coimbra), Antonio P. Antunes (University of Coimbra), Josep R. Roca (Technical University of Catalonia)</td>
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<td>16:10-16:30</td>
<td>Paper WeB3.4</td>
<td>How does transport infrastructure affect dwelling prices in Athens? (paper 13)</td>
<td>Dimitrios Efthymiou (National Technical University of Athens), Constantinos Antoniou (National Technical University of Athens)</td>
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**WeB4 Room AAC108 15:10-16:30**  
**Freight Transportation**  
Chair: Hesham Rakha

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<td>15:10-15:30</td>
<td>Paper WeB4.1</td>
<td>A business establishment fleet ownership model (paper 78)</td>
<td>Taha Hossein Rashidi (University of Toronto), Matthew Roorda (University of Toronto), Toka S. Mostafa (University of Toronto)</td>
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<td>15:30-15:50</td>
<td>Paper WeB4.2</td>
<td>A decision tree approach to analyze freight mode choice decisions (paper 109)</td>
<td>Amir Samimi (Sharif University of Technology), Hesamoddin Razi-Ardakani (Sharif University of Technology), Abolfazl Mohammadian (University of Illinois at Chicago)</td>
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**WeB5 Room AAC137 15:10-16:30**  
**Pedestrian Networks**  
Chair: Bilal Farooq

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<td>15:10-15:30</td>
<td>Paper WeB5.1</td>
<td>Analysis of the pedestrian network of Lausanne: eccentricity, accessibility and partitioning (paper 37)</td>
<td>Théophile Emmanouilidis (University of Lausanne), Francois Bavaud (University of Lausanne)</td>
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<td>15:30-15:50</td>
<td>Paper WeB5.2</td>
<td>Experimental study of spatial searching behaviour of travellers in pedestrian networks (paper 144)</td>
<td>Takamasa Iryo (Kobe University), Hiroaki Shintaku (Kobe University), Shiiho Senoo (Kobe University)</td>
</tr>
<tr>
<td>16:10-16:30</td>
<td>Paper WeB5.4</td>
<td>Efficiency of choice set generation methods for bicycle routes (paper 93)</td>
<td>Katrin Halldórsdóttir (Technical University of Denmark), Nadine Rieser-Schüssler (Swiss Federal Institute of Technology Zurich), Kay Ashausen (Swiss Federal Institute of Technology Zurich), Otto Anker Nielsen (Technical University of Denmark), Carlo Giacomo Prato (Technical University of Denmark)</td>
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**WeC1 Room AAC008  16:40-17:40**

**Value of Travel Time**
Chair: Vikash Gayah

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<td>16:40-17:00</td>
<td>Paper WeC1.1</td>
<td>Mogens Fosgerau, Technical University of Denmark</td>
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<td></td>
<td>Endogenous scheduling and the cost of travel time variability (paper 58)</td>
<td>Leonid Engelson, KTH Royal Institute of Technology</td>
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<td>Joel Franklin, KTH Royal Institute of Technology</td>
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<td>17:00-17:20</td>
<td>Paper WeC1.2</td>
<td>Farideh Ramjeldi, Institute of Transport Economics, Norway</td>
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<td>The heterogeneity of value of travel time among cyclists and implications in policy appraisal (paper 126)</td>
<td>Jasper Knockaert, Free University of Amsterdam</td>
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<td>Knut Veisten, Institute of Transport Economics, Norway</td>
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<td>17:20-17:40</td>
<td>Paper WeC1.3</td>
<td>Paul Anderson, University of Minnesota</td>
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<td>The time between: continuously-defined accessibility functions for schedule-based transportation systems (paper 143)</td>
<td>Andrew Owen, University of Minnesota</td>
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<td>David Levinson, University of Minnesota</td>
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**WeC2 Room AAC014  16:40-17:40**

**Connected Vehicles**
Chair: Chris Thampere

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<td>Paper WeC2.1</td>
<td>Qiao Ge, Swiss Federal Institute of Technology Zurich</td>
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<td>A simulation study of the car-to-x communication based merge traffic control in freeway work zone (paper 40)</td>
<td>Monica Menendez, Swiss Federal Institute of Technology Zurich</td>
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<td>17:00-17:20</td>
<td>Paper WeC2.2</td>
<td>Ismail Zohdy, Virginia Tech</td>
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<td>Moving horizon optimization algorithm for cooperative adaptive cruise control systems at intersections (paper 123)</td>
<td>Hesham Rakha, Virginia Tech</td>
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<td>17:20-17:40</td>
<td>Paper WeC2.3</td>
<td>Laleh Makare, École Polytechnique Fédérale de Lausanne</td>
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<td>Information sharing among autonomous vehicles crossing an intersection (paper 177)</td>
<td>Denis Gillet, École Polytechnique Fédérale de Lausanne</td>
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**WeC3 Room ACC020  16:40-18:00**

**Scheduling and Routing**
Chair: Shlomo Bekhor

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<td>16:40-17:00</td>
<td>Paper WeC3.1</td>
<td>Qian Wang, KTH Royal Institute of Technology</td>
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<td>On the valuation of travel time variability, and longer travel times than expected (paper 186)</td>
<td>Marcus Sundberg, KTH Royal Institute of Technology</td>
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**WeC4 Room AAC108  16:40-18:00**

**Logistics I**
Chair: Gunnar Flötteröd

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<td>16:40-17:00</td>
<td>Paper WeC4.1</td>
<td>Agostino Nuzzolo, &quot;Tor Vergata&quot; University of Rome</td>
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<td></td>
<td>An aggregate approach for urban delivery tour simulation (paper 89)</td>
<td>Antonio Comi, &quot;Tor Vergata&quot; University of Rome</td>
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<td>17:00-17:20</td>
<td>Paper WeC4.2</td>
<td>Paolo Delle Site, University of Rome &quot;La Sapienza&quot;</td>
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<td></td>
<td>Managing air traffic disruptions through strategic prioritization (paper 43)</td>
<td>Francesco Filippi, University of Rome &quot;La Sapienza&quot;</td>
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<td>Marco Valerio Salucci, University of Rome &quot;La Sapienza&quot;</td>
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<tr>
<td>17:20-17:40</td>
<td>Paper WeC4.3</td>
<td>Miguel Santos, University of Coimbra</td>
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<td></td>
<td>On the use of entropy for the estimation of vehicle OD matrices within urban commodity-based models (paper 42)</td>
<td>Antonio Antunes, University of Coimbra</td>
</tr>
</tbody>
</table>
Thursday September 6, 2012

ThA1 Room AAC008       10:30-12:10

Public Transportation (I)
Chair: Juan Carlos Munoz

10:30-10:50       Paper ThA1.1
Optimal public transport supply in an agent-based model: The influence of departure time choice on operator’s profit and social welfare (paper 11)
Benjamin Kickhöfer Berlin Institute of Technology
Ihab Kaddoura Berlin Institute of Technology
Alejandro Tirachini The University of Sydney

10:50-11:10       Paper ThA1.2
Holding for Transfers (paper 116)
Felipe Delgado Pontificia Universidad Católica de Chile
Juan Carlos Munoz Pontificia Universidad Católica de Chile

11:10-11:30       Paper ThA1.3
Aggregate and disaggregated measures of public transport quality (paper 136)
Ennio Cascetta University of Naples
Armando Carteni University of Naples

11:30-11:50       Paper ThA1.4
Simulation-based generation of route choice sets in large public transport networks (paper 119)
Thomas Rasmussen Technical University of Denmark
Carlo Prato Technical University of Denmark
Otto Anker Nielsen Technical University of Denmark

11:50-12:10       Paper ThA1.5
An enhanced measurement model of perception of comfort in public transportation (paper 157)
Aurélie Glerum École Polytechnique Fédérale de Lausanne
Michel Bierlaire École Polytechnique Fédérale de Lausanne

ThA2 Room AAC014       10:30-12:10

Traffic Flow Theory
Chair: Masao Kuwahara

10:30-10:50       Paper ThA2.1
Solution Non-uniqueness of Intersection Models for First-Order Macroscopic Dynamic Network Loading (paper 14)
Ruben Corthout Katholieke Universiteit Leuven
Gunnar Flößeröd KTH Royal Institute of Technology
Francesco Viti University of Luxembourg
Chris Tampere Katholieke Universiteit Leuven

10:50-11:10       Paper ThA2.2
Traffic Hysteresis and the Evolution of Stop-And-Go Oscillations (paper 165)
Danjue Chen Georgia Institute of Technology
Soyoung Ahn Arizona State University
LATSSIS Symposium 2012

Zuduo Zheng  Queensland University of Technology
Jorge Laval  Georgia Institute of Technology

11:10-11:30  Paper ThA2.3
Social force-based vehicle model for traffic simulation (paper 34)
Weinan Huang  Graz University of Technology
Martin Fellendorf  Graz University of Technology

11:30-11:50  Paper ThA2.4
Using probabilistic information from macroscopic traffic models to derive computationally efficient simulation-based optimization algorithms (paper 189)
Carolina Osorio  Massachusetts Institute of Technology
Hoda Bidkhori  Massachusetts Institute of Technology

11:50-12:10  Paper ThA2.5
Improving probabilistic traffic modeling through advanced sampling (paper 69)
Simeon Calvert  Delft University of Technology
Henk Taale  Delft University of Technology
Maaike Snelder  Delft University of Technology
Serge Hoogendoorn  Delft University of Technology

ThA3 Room AAC020  10:30-11:50

Travel Behavior
Chair: Hillel Bar-Gera

10:30-10:50  Paper ThA3.1
An optimization framework for travel pattern interpretation of cellular data (paper 101)
Sarit Freund  Ben-Gurion University of the Negev
Hillel Bar-Gera  Ben-Gurion University of the Negev

10:50-11:10  Paper ThA3.2
VirtualBelgium: a simulation platform for the Belgian population (paper 41)
Johan Barthelemy  FUNDP-University of Namur
Laurie Hollaert  FUNDP-University of Namur
Toint Philippe  FUNDP-University of Namur

11:10-11:30  Paper ThA3.3
Investigation of travel patterns using passive cellular phone data (paper 103)
Shlomo Bekhor  Technion - Israel Institute of Technology
Ilil Blum Shem-Tov  Technion - Israel Institute of Technology

11:30-11:50  Paper ThA3.4
Attitudinal approaches in travel behavior research combining quantitative and qualitative methods (paper 208)
Foteini Mikiki  Aristotle University of Thessaloniki
Panagiotis Papaioannou  Aristotle University of Thessaloniki

ThA4 Room AAC108  10:30-12:10

Logistics (II)
Chair: Konstantinos Zografas

10:30-10:50  Paper ThA4.1
An Improved Method for Solving Micro-Ferry Scheduling Problems (paper 56)
Mernout Burger  Delft University of Technology
Bart De Schutter  Delft University of Technology
Hans Hellendoorn  Delft University of Technology

10:50-11:10  Paper ThA4.2
Models and Algorithms for Solving the Multi-criteria Itinerary Planning Problem on International Multimodal Transportation Networks (paper 207)
Konstantinos Zografas  Athens University of Economics and Business
Konstantinos Androustopoulos  Athens University of Economics and Business

11:10-11:30  Paper ThA4.3
Large scale robust optimization of bulk port operations (paper 108)
Nitish Umang  École Polytechnique Fédérale de Lausanne
Michel Bierlaire  École Polytechnique Fédérale de Lausanne

11:30-11:50  Paper ThA4.4
A Mixed-Integer Linear Programming model for container assignment optimization on an intermodal network (paper 134)
Simona Mancini  Politecnico di Torino
Maurizio Arnone  SITI - Istituto Superiore sui Sistemi Territoriali per l’Innovazione
Micheal Bell  Imperial College London

11:50-12:10  Paper ThA4.5
Analysis of the Physical Internet vs. supply chains (paper 206)
Eric Ballot  Mines ParisTech, France
Benoit Montreuil  Université Laval, Canada

ThB1 Room AAC008  15:15-16:55

Public Transportation (II)
Chair: Andy Chow

15:15-15:35  Paper ThB1.1
Determining Optimal Control Stop to Improve Bus Services Reliability (paper 52)
Der-Horng Lee  National University of Singapore
Lijun Sun  National University of Singapore
Alex Erath  Singapore-ETH Centre

15:35-15:55  Paper ThB1.2
Multi-objective optimization of multimodal transportation networks (paper 75)
Ties Brands  University of Twente
Eric van Berkum  University of Twente

15:55-16:15  Paper ThB1.3
A mathematical approach to the modeling of taxi services (paper 164)
LATSIS Symposium 2012

Josep Maria Salanova Grau  CERTH - HIT
Miquel Estrada Romeu  CENIT - UPC

16:15-16:35  Paper ThB1.4

Analysing route choice decisions on metro networks (paper 188)
Sebastián Raveau  Pontificia Universidad Católica de Chile
Zhan Guo  New York University
Juan Carlos Munoz  Pontificia Universidad Católica de Chile
Nigel H. M. Wilson  Massachusetts Institute of Technology

16:35-16:55  Paper ThB1.5

Time-table based choice set generation for public transport connection choice based on GPS observations (paper 94)
Nadine Rieser-Schüssler  Swiss Federal Institute of Technology Zurich
Marcel Rieser  senozon
Lara Montini  Zurich
Kay W. Axhausen  Zurich

ThB2 Room AAC014  15:15-16:55
Traffic Flow Modelling
Chair: Ben Heydecker

15:15-15:35  Paper ThB2.1
An extended fluid-dynamic model for urban-scale traffic analysis (paper 204)
Amin Mazloumian  Swiss Federal Institute of Technology Zurich

15:35-15:55  Paper ThB2.2
Assessment of multi class kinematic wave models (paper 148)
Femke van Wageningen-Kessels  Delft University of Technology
Hans van Lint  Delft University of Technology
Kees Vuik  Delft University of Technology
Serge Hoogendoorn  Delft University of Technology

15:55-16:15  Paper ThB2.3
A multi-class macroscopic intersection model (paper 156)
Erik-Sander Smits  Delft University of Technology
Adam Pel  Delft University of Technology
Bart van Arem  Delft University of Technology

16:15-16:35  Paper ThB2.4
Enhanced cell transmission model for urban roads (paper 45)
Weinan Huang  Graz University of Technology
Martin Fellendorf  Graz University of Technology

16:35-16:55  Paper ThB2.5
Relationships between discretionary lane-changing and Traffic conditions (paper 72)
Minju Park  Republic of Korea, KAIST
Kiaae Jang  Republic of Korea, KAIST
Hwasoo Yeo  Republic of Korea, KAIST

ThB3 Room AAC020  15:15-16:55
Congestion Pricing
Chair: Jonas Eliasson

15:15-15:35  Paper ThB3.1
Congestion and Vehicle Emission Pricing with a Bilevel Bi-objective Optimisation Model (paper 26)
Judith Y T Wang  The University of Auckland
Matthias Ehrgott  The University of Auckland

15:35-15:55  Paper ThB3.2
Between and within individual variation in values of time and mode choice – application to equity effects of congestion charges (paper 115)
Maria Börjesson  KTH Royal Institute of Technology
Elisabetta Cherchi  Technical University of Denmark
Michel Bierlaire  École Polytechnique Fédérale de Lausanne

15:55-16:15  Paper ThB3.3
Decision factors of congestion pricing acceptability (paper 133)
Carl Hamilton  KTH Royal Institute of Technology
Jonas Eliasson  KTH Royal Institute of Technology
Karim Brundell-Freij  WSP Sweden
Kati Kiiskilä  Sito Finland
Charles Raux  LET France
Stephanie Souche  LET France
Juha Tervonen  Welho Finland

16:15-16:35  Paper ThB3.4
Optimization of road pricing using metaheuristics (paper 178)
Thomas Ross Pedersen  Technical University of Denmark
Otto Anker Nielsen  Technical University of Denmark

16:35-16:55  Paper ThB3.5
Using high-resolution first-best tolls as a benchmark for policy evaluation: The case of air pollution costs (paper 10)
Benjamin Kickhöfer  Berlin Institute of Technology
Kai Nagel  Berlin Institute of Technology

ThB4 Room AAC108  15:15-16:55
Land Use
Chair: Toshio Yoshii

15:15-15:35  Paper ThB4.1
Data Inconsistencies Detection and Correction: an Application to Identifying Joint Household Travel from Household Travel Survey (paper 12)
Chinh Ho  The University of Sydney
Corinne Mulley  The University of Sydney
Kerry Shaz  Transport for NSW

15:35-15:55  Paper ThB4.2
Investigating land-use and transport interaction with an agent-based model (paper 183)
Charles Raux  LET France
LATSIS Symposium 2012

Friday September 7, 2012
FrA1 Room AAC008 08:30-10:10
Public Transportation (III)
Chair: Nicolas Chiabaut

08:30-08:50 Paper FrA1.1
An integrated real time transit signal priority control for high frequency transit services (paper 180)
Felipe Delgado Pontificia Universidad Católica de Chile
Juan Carlos Munoz Pontificia Universidad Católica de Chile
Ricardo Giesen Pontificia Universidad Católica de Chile

08:50-09:10 Paper FrA1.2
Multimodal level of service for urban streets: cross-comparison of estimation methods (paper 168)
Xiaoyan Xie Université de Lyon, IFSTTAR / ENTPE, LICIT
Nicolas Chiabaut Université de Lyon, IFSTTAR / ENTPE, LICIT
Ludovic Leclercq Université de Lyon, IFSTTAR / ENTPE, LICIT

09:10-09:30 Paper FrA1.3
Dynamic shortest hyperpath search in transit networks with queues: model and algorithm advances (paper 147)
Valentina Trozzi Imperial College London
Guido Gentile La Sapienza University of Rome
Ioannis Kaparias City University London
Michael Bell Imperial College London

09:30-09:50 Paper FrA1.4
Identifying the main drivers of technical efficiency of urban metro systems using stochastic frontier techniques (paper 65)
Shane Canavan Imperial College London
Daniel Graham Imperial College London
Patricia Melo Imperial College London
Richard Anderson Imperial College London

09:50-10:10 Paper FrA1.5
Adaptive path choice decisions in public transport systems: an agent-based assignment model (paper 95)
Oded Cats KTH Royal Institute of Technology
Haris N. Koutsopoulos KTH Royal Institute of Technology
Tomer Toledo Technion – Israel Institute of Technology

FrA2 Room AAC014 08:30-10:10
Macroscopic Fundamental Diagrams
Chair: Jack Haddad

08:30-08:50 Paper FrA2.1
Studying the feasibility of a MFD control in Zürich (paper 124)
Javier Ortigosa Swiss Federal Institute of Technology Zurich
Kathrin Arnet Swiss Federal Institute of Technology Zurich
Monica Menendez Swiss Federal Institute of Technology Zurich
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<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:50-09:10</td>
<td>Paper FrA2.2</td>
<td>Traffic network guidance using area accumulation and spatial variation in density (paper 152)</td>
<td>Victor Knoop, Hans van Lint, Serge Hoogendoorn</td>
<td>Delft University of Technology</td>
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<tr>
<td>09:10-09:30</td>
<td>Paper FrA2.3</td>
<td>Relationship between mean and variance of travel time in congested networks (paper 84)</td>
<td>Vinayak Dixit, Vikash Gayah</td>
<td>University of New South Wales, University of California Berkeley</td>
</tr>
<tr>
<td>09:30-09:50</td>
<td>Paper FrA2.4</td>
<td>Exploring macroscopic fundamental diagrams for the transportation network in Central London (153)</td>
<td>Ioannis Tsapakis, Benjamin Heydecker</td>
<td>University College London</td>
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<tr>
<td>09:50-10:10</td>
<td>Paper FrA2.5</td>
<td>Network capacity, traffic instability, and adaptive driving: findings from simulated network experiments (paper 205)</td>
<td>Meead Saberi, Ali Zokaie, Hani Mahmassani</td>
<td>Northwestern University, Northwestern University, Northwestern University</td>
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<td>08:30-10:10</td>
<td>FrA3 Room AAC020</td>
<td>Transportation Economics</td>
<td>Chair: Eric Gonzales</td>
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<td>08:30-08:50</td>
<td>Paper FrA3.1</td>
<td>Regulating on-street parking - evidence from Danish data (paper 64)</td>
<td>Ismir Mulalic, Edith Madsen, Ninette Pilegaard</td>
<td>Technical University of Denmark, Technical University of Denmark, Technical University of Denmark</td>
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<tr>
<td>08:50-09:10</td>
<td>Paper FrA3.2</td>
<td>Achieving political acceptability for new transport infrastructure in congested urban regions (paper 137)</td>
<td>Jonas Westin, Pierre Basck, Joel Franklin, Stef Proost, Charles Raux</td>
<td>KTH Royal Institute of Technology, Laboratoire d’Economie des Transports, France, KTH Royal Institute of Technology, Katholieke Universiteit Leuven, Laboratoire d’Economie des Transports, France</td>
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<tr>
<td>09:10-09:30</td>
<td>Paper FrA3.3</td>
<td>An integrated schedule planning and revenue management model (paper 125)</td>
<td>Bilge Atasoy, Matteo Salani, Michel Bierlaire</td>
<td>École Polytechnique Fédérale de Lausanne, Artificial - IDSIÁ, École Polytechnique Fédérale de Lausanne</td>
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<td>09:30-09:50</td>
<td>Paper FrA3.4</td>
<td>Bottleneck congestion with a fixed and peak toll: San Francisco - Oakland Bay Bridge (paper 197)</td>
<td>Eric Gonzales</td>
<td>Rutgers University</td>
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<td>09:50-10:10</td>
<td>Paper FrA3.5</td>
<td>Competition in Multi-Modal Transport Networks with Unpriced Roads: A Dynamic Approach (paper 120)</td>
<td>Adrian Hendrik van der Weijde, Erik T. Verhoef, Vincent van Den Berg</td>
<td>Vrije Universiteit Amsterdam, Vrije Universiteit Amsterdam, Vrije Universiteit Amsterdam</td>
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<td>08:30-08:50</td>
<td>Paper FrA4.1</td>
<td>Investigating uncertainty in transport modelling: a four-stage model case study (146)</td>
<td>Stefano Manzo, Otto Anker Nielsen, Carlo Prato</td>
<td>Technical University of Denmark, Technical University of Denmark, Technical University of Denmark</td>
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<td>08:50-09:10</td>
<td>Paper FrA4.2</td>
<td>Stability analysis of activity-based models: the case of Tel Aviv, Israel (paper 102)</td>
<td>Leonid Kheifits, Michael Sorani, Shlomo Bekhor</td>
<td>Independent Consultant, AB Plan, Israel, Technion - Israel Institute of Technology</td>
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<td>09:10-09:30</td>
<td>Paper FrA4.3</td>
<td>Forecasting ridership for new modes using stated choice data – methodological challenges in studying demand for high-speed rail in Norway (paper 73)</td>
<td>Stefan Flügel, Askill H. Halse, Juan De Dios Ortúzar, Luis Rizzi</td>
<td>Norwegian University of Life Sciences, Institute of Transport Economics (TOI), Pontificia Universidad, Chile, Pontificia Universidad, Chile</td>
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<td>09:30-09:50</td>
<td>Paper FrA4.4</td>
<td>Uniqueness of Stochastic User Equilibrium on urban road networks with realistic volume-delay functions (paper 121)</td>
<td>Giulio Erberto Cantarella, Guido Gentile, Pietro Velonà</td>
<td>Università di Salerno, Università degli Studi di Roma, Università di Reggio Calabria</td>
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<td>09:50-10:10</td>
<td>Paper FrA4.5</td>
<td>Lindberg Random Utility Invariance Revisited (141)</td>
<td>Per Olov Lindberg</td>
<td>KTH Royal Institute of Technology</td>
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<td>14:00-15:20</td>
<td>FrB1 Room AAC008</td>
<td>OR/Logistics</td>
<td>Chair: Yafeng Yin</td>
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<td>14:00-14:20</td>
<td>Paper FrB1.1</td>
<td>Optimal Location of Battery Electric Vehicle Charging Stations in Urban Areas: A New Approach (paper 33)</td>
<td>Diego Alejandro Giménez, Anabela Narciso Ribeiro</td>
<td>University of Coimbra, University of Coimbra</td>
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</tbody>
</table>
Francesc Hans mixed Ludovic Bart  
Chair: Road FrB3  
Josep 14:40

Yafeng Di  University of Florida
Fang He University of Florida
Yafeng Yin University of Florida
Yongpei Guan University of Florida

14:40-15:00  Paper FrB1.3
The optimal truck size choice – explanations and implications (paper 203)

Megersa Abate Technical University of Denmark

15:00-15:20  Paper FrB1.4
Comparing optimal relocation operations with simulated relocation policies in one-way carsharing systems (paper 161)

Diana Jorge University of Coimbra
Diana Jorge University of Coimbra
Cynthia Barnhart Massachusetts Institute of Technology

Chair: Jorge Laval

14:00-14:20  Paper FrB2.1
Control management of signalized junctions (paper 118)

Ayelet Gal-Tzur Technion - Israel Institute of Technology
Niv Eden Technion - Israel Institute of Technology
David Mahalel Technion - Israel Institute of Technology

14:20-14:40  Paper FrB2.2
The Hamilton-Jacobi partial differential equation and the three representations of traffic flow (paper 182)

Jorge Laval Georgia Institute of Technology
Ludovic Leclercq ENTPE

14:40-15:00  Paper FrB2.3
Control of traffic networks using the link transmission model and mixed integer linear programming (paper 62)

Mohammad Hajiahmadi Delft University of Technology
Bart De Schutter Delft University of Technology
Hans Hellendoorn Delft University of Technology

15:00-15:20  Paper FrB2.4
Modifications of asymmetric cell transmission model for modeling variable speed limit strategies (paper 82)

Josep Maria Torné CENIT - Center for innovation in transport
Francesc Soriguera CENIT - Center for innovation in transport

Traffic Flow and Control

Chair: Jorge Laval

14:00-14:20  Paper FrB3.1
Semiparametric double-robust estimation for continuous treatment effects: an application for road traffic accident analysis (paper 16)

Daniel Graham Imperial College London

14:20-14:40  Paper FrB3.2
Empirical analysis of ramp preference in the case of accidents on the Metropolitan Expressway (paper 53)

Hiroyuki Oneyama Tokyo Metropolitan University
Takashi Oguchi University of Tokyo
Shigenori Shikata Tokyo Metropolitan University
Hiroshi Warita Metropolitan Expressway Company Limited

14:40-15:00  Paper FrB3.3
Analysis of the bicycle space to avoid crossing conflict between Bicycles and vehicles at the small intersection (paper 79)

Hidekatsu Hamaoka Akita University, Japan
Masahiro Sasaki CTI Engineering, Japan

15:00-15:20  Paper FrB3.4
Incident detection for the surface street network with the mesh-wise traffic indices on the macroscopic fundamental diagram (paper 155)

Ryota Horiguchi i-Transport Lab. Co., Ltd.
Morihisa Iijima i-Transport Lab. Co., Ltd.
Masato Kobayashi i-Transport Lab. Co., Ltd.
Hisatomo Hanabusa i-Transport Lab. Co., Ltd.

Transportation Planning

Chair: Mogens Fosgerau

14:00-14:20  Paper FrB4.1
Randomness in day-to-day travel time and its implications For average travel time expenditure (paper 122)

Asif Ahmed The University of Sydney
Peter Stopher The University of Sydney
Stephen Greaves The University of Sydney

14:20-14:40  Paper FrB4.2
Dynamic capacity allocation (paper 176)

Iaklis Stamos Hellenic Institute of Transport
Evangelos Mitsaklis Hellenic Institute of Transport

14:40-15:00  Paper FrB4.3
Dynamic process model of mass effects in travel demand forecasting (paper 195)

Jan Dirk Schmoecker Kyoto University, Japan
Tsuyoshi Hatori Ehime University, Japan
David Watling University of Leeds

15:00-15:20  Paper FrB4.4
Could we have predicted the increase in urban travel distances Observed in the last twenty years using the “old” gravity model of trip distribution? (paper 85)

Jorge Cabrera Laboratoire d’Economie des Transports ENTPE
Patrick Bonnel Laboratoire d’Economie des Transports ENTPE