# Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

## 03.06.2015, Wednesday

### 9:30-10:30

**Tea room**

**Gobelin room**

**Kave room**

<table>
<thead>
<tr>
<th>social networks and travel behaviour (Pnina Plaut)</th>
<th>transport modeling 1 (Gaetano Fusco)</th>
<th>location data based applications 1 (Francesco Viti)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruth Conroy-Dalton (Northumbria University)</td>
<td>Gennaro Nicola Bifulco (University of Naples Federico II)</td>
<td>Oliver Michler (Technical University Dresden)</td>
</tr>
<tr>
<td>Wayfinding as a social activity</td>
<td>The impact of the leading vehicle type on car-following behaviours</td>
<td>Model-based and empirical performance analyses for passenger positioning algorithms in a specific bus cabin environment</td>
</tr>
<tr>
<td>Amalia Polydoropoulou (University of Aegean)</td>
<td>Anahita Jamshidnejad (Delft University of Technology)</td>
<td>Joschka Bischoff (TU Berlin)</td>
</tr>
<tr>
<td>The influence of social networks on modeling travel behavior: opportunities and challenges</td>
<td>An iterative procedure for estimating the generalized average speed using microscopic point measurements</td>
<td>Analysis of Berlin’s taxi services by exploring GPS traces</td>
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<tr>
<td>Cesare Bartolini (University of Luxembourg)</td>
<td>Marcello Montanino (University of Naples)</td>
<td>Guido Cantelmo (University of Luxembourg)</td>
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<tr>
<td>An overview of the limitations to the dissemination of data</td>
<td>Parameter sampling strategies in traffic micro-simulation</td>
<td>Assessing The Consistency Between Observed And Modelled Route Choices Through GPS Data</td>
</tr>
<tr>
<td>Andor Háznagy (BME - Budapest University of Techn.)</td>
<td>Andráš Mihály (BME - Budapest University of Techn.)</td>
<td>Panagiotis Iordanopoulos (Hellenic Institute of Transport)</td>
</tr>
</tbody>
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### 11:00-13:00

**Tea room**

**Gobelin room**

**Kave room**

<table>
<thead>
<tr>
<th>transport modeling 2 (Vincenzo Punzo)</th>
<th>location data based applications 2 (Marialisa Nigro)</th>
<th>traffic monitoring 1 (Oliver Michler)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ioulia Markou, C. Antoniou (National Technical University of Athens)</td>
<td>Michal Certicky (Czech Technical University in Prague)</td>
<td>Banihan Gunay (Transport at Akdeniz University)</td>
</tr>
<tr>
<td>Developing insight into effective SPSA parameters through sensitivity analysis</td>
<td>Fully Agent-based Simulation Model of Multimodal Mobility in European Cities</td>
<td>Area-wide ANPR coverage with a small number of instrumented vehicles</td>
</tr>
<tr>
<td>Vittorio Marzano (University of Naples Federico II)</td>
<td>Klaas Friso (DAT Mobility)</td>
<td>J. Raghothama, M.R. Carretero (KTH - Royal Institute of Technology)</td>
</tr>
<tr>
<td>A Kalman filter for online quasi-dynamic o-d flows estimation/updateding</td>
<td>Enriching the transport model of the Rotterdam region by cell phone data</td>
<td>Architectures for Distributed, Interective and Integrated Traffic Simulations</td>
</tr>
<tr>
<td>Bojan Kostic (Sapienza University of Rome)</td>
<td>Simone Aniello Di Donna (University of Luxembourg)</td>
<td>Marek Bauer (Cracow University of Technology)</td>
</tr>
</tbody>
</table>

### 14:00-15:30

**Tea room**

**Gobelin room**

**Kave room**

<table>
<thead>
<tr>
<th>vehicle energy optimization (Gaetano Fusco)</th>
<th>location data based applications 3 (Francesco Viti)</th>
<th>traffic monitoring 2 (Oliver Michler)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mario Krumnow (Technical University Dresden)</td>
<td>Adrian C. Prelipean (KTH - Royal Institute of Technology)</td>
<td>Mariális Nigro (Università degli Studi Roma Tre)</td>
</tr>
<tr>
<td>Energy-efficient Routing Strategies based on real-time data of a local traffic management center</td>
<td>Comparative framework for activity-travel diary collection systems</td>
<td>Analysis of the demand for an electronic advise of traffic code violations</td>
</tr>
<tr>
<td>Johannes Asamer (AIT - Austrian Institute of Technology)</td>
<td>Domokos Esztergár-Kiss (BME - Budapest University of Techn.)</td>
<td>Tamás Lovas (BME - Budapest University of Technology and Econ.)</td>
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<tr>
<td>The elevation factor: digital elevation model quality and sampling impacts on electric vehicle energy estimation errors</td>
<td>Simulation results for a daily activity chain optimization method</td>
<td>Pedestrian detection by profile laser scanning</td>
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<tr>
<td>Andráš Mihály, Zoltán Ádám Milacski (Eötvös Loránd University)</td>
<td>Michael Behrisch (DLR - German Aerospace Center)</td>
<td>Domonkos Varga (SZTAKI)</td>
</tr>
<tr>
<td>Cost and risk sensitive decision making and control for highway overtaking maneuver</td>
<td>Modelling and Simulating Bluetooth-based Moving Observers</td>
<td>Pedestrian detection in surveillance videos based on CS-LBP feature</td>
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</tbody>
</table>

### 19:00

coffee break

### gala dinner (Danube palace)
Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

04.06.2015, Thursday

9:30-10:30

plenary session - Tea room

Guido Gentile (Sapienza University of Rome)
Challenges in model based traffic prediction for real-time mobility management applied to large networks

Coffee break

Tea room

traffic modeling and estimation 1 (Gennaro Nicola Bifulco)
G. Fusco, C. Colomboaroni, N. Isaenko (Sapienza University of Rome)
Short-term traffic predictions on large urban traffic networks: applications of network-based machine learning models ...

Gobelin room

public transport optimization 1 (Balázs Horváth)
Felix Burmeister (DLR - German Aerospace Center)
Optimized energy management of inductively charged electric buses reflecting operational constraints and traffic conditions

Kave room

railway traffic optimization (Francesco Corman)
William Carvajal-Carreno (UPCOMILLAS-KTH)
Energy Efficient Driving Algorithms For Non-Disturbed And Disturbed Trains With The CBTC Signalling System

11:00-13:00

Lunch

traffic modeling and estimation 2 (Guido Gentile)
Maximilian Leodolter (AIT - Austrian Institute of Technology)
Estimating Travel Times from Static Map Attributes

Balázs Horváth, Richard Horváth (Széchenyi István University)
Estimation of sample size to forecast travel demand in urban public transport

road transport communication 1 (Mario Krumnow)
Maarten Houbraken (Ghent University)
Real-time Traffic Monitoring by fusing Floating Car Data with Stationary Detector Data

Cs. Csiszár, E. Nagy, D. Karádi (BME - Budapest University of Techn.)
Integrated Information Application on Mobile Devices for Air Passengers From Traffic Control System

Andreas Kretschmer (INAVET)
A demonstration of distribution-based calibration

A Model of an energy optimal public transportation network

Jacek Oskarbski, Krystian Birr (Gdansk University of Techology)
A new approach for train calendar description generation

Mario Krumnow (Technical University Dresden)
Microscopic real-time traffic simulations to support Advanced Driver Assistance Systems

Camilla Baroncelli, Luigi Costalli (Aleph s.r.l.)
A model for attributing the responsibilities of delay propagation on railway networks

14:00-15:30

coffee break

traffic control and route choice (Guido Gentile)
Rafal Kucharski (Politechnika Krakowska)
Observing rerouting phenomena in dynamic traffic networks

Károly Farkas (BME - Budapest University of Techn.)
Simulation Environment for Investigating Crowd-sensing Based Urban Parking

road transport communication 2 (Mario Krumnow)
Wei Huang (KU Leuven)
An integrated approach to adaptive anticipatory traffic control and parameter estimation

Mohammad Maghrour Zefreh (BME - Budapest University of Techn.)
Maneuvers analysis of shared taxi and their effects on flow characteristics

Norbert Varga (BME - Budapest University of Techn.)
LDM-based dynamic network discovery and selection for IPv6 mobility management optimization in C-ITS environments

16:00-17:30

conference dinner (panorama boat trip)
<table>
<thead>
<tr>
<th>Time</th>
<th>Place</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:00-10:30</td>
<td>Tea room</td>
<td>Michael Behrisch (DLR - German Aerospace Center)</td>
<td>Comparing Emission and Traffic Flow models of different categories</td>
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<td>Gobelin room</td>
<td>Tiago Azevedo (University of Porto)</td>
<td>A State-of-the-art Integrated Transportation Simulation Platform</td>
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<td>Kave room</td>
<td>Marcella Sama (Università degli Studi Roma Tre)</td>
<td>A variable neighborhood search for optimal scheduling and routing of take-off and landing aircraft</td>
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<td></td>
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<td>Bernhard Heilmann (AIT - Austrian Institute of Technology)</td>
<td>An Assessment of VMS-Rerouting and Traffic Signal Planning with Emission Objectives in an Urban Network</td>
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<td>Csaba Csiszár, Zsolt Sándor (BME - Budapest University of Techn.)</td>
<td>Modelling and Analysis Methods of Integrated Information Systems of Transportation</td>
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<td></td>
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<td>Zsolt Berki (FOMTERV)</td>
<td>Tackling sustainable urban transport policy measures in transport models</td>
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<tr>
<td>11:00-12:30</td>
<td>Tea room</td>
<td>Zoi Christoforou (Université Paris Est)</td>
<td>A Transit Bottleneck Model for Waiting Passengers and its Implications for Traffic Assignment</td>
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<td>Bertalan Gaál (Széchenyi István University)</td>
<td>Status of Land Use and Transport Modelling in Hungary</td>
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<td>István Fütyü (BME - Budapest University of Techn.)</td>
<td>Conceptual analysis of ITS effect on SCGE models</td>
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<td>János Monigil (FOMTERV)</td>
<td>e-Payment as an Efficient Management Tool for Public Transport</td>
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<td>Ferenc Cselle (FOMTERV)</td>
<td>The Hungarian national freight transport model</td>
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<tr>
<td>12:40-13:30</td>
<td>Tea room</td>
<td>Tamás Móricz (HC Linear IT Development Ltd)</td>
<td>Vektor System – the complex solution</td>
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<td>Imre Pechan (evopro Innovation Kft)</td>
<td>Dynamic Railway Diagnostic Measurement System</td>
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<td>István Wahl (evopro Bus Kft)</td>
<td>Modularity Built Composite Structured eBus Family</td>
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<td>14:30-16:00</td>
<td>BKK traffic management center - group 3</td>
<td>Zsolt Szalay, Dániel Rohács</td>
<td>A Case Study in Istanbul E-80: Intelligent Speed Change at the Highway for Gas Emission</td>
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<td>Péter Gáspár</td>
<td>Traffic Control Lab - group 1</td>
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<td>Zsolt Szalay, Dániel Rohács</td>
<td>Simulator Lab - group 1</td>
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<td>Péter Gáspár</td>
<td>Traffic Control Lab - group 2</td>
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<td>Zsolt Szalay, Dániel Rohács</td>
<td>Simulator Lab - group 2</td>
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### Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

**05.06.2015, Friday**

**Tea room**

- **9:00-10:30**
  - Comparing Emission and Traffic Flow models of different categories (Michael Behrisch)
  - A State-of-the-art Integrated Transportation Simulation Platform (Tiago Azevedo)
  - A variable neighborhood search for optimal scheduling and routing of take-off and landing aircraft (Marcella Sama)

**Gobelin room**

- An Assessment of VMS-Rerouting and Traffic Signal Planning with Emission Objectives in an Urban Network (Bernhard Heilmann)
- Modelling and Analysis Methods of Integrated Information Systems of Transportation (Csaba Csiszár, Zsolt Sándor)
- Tackling sustainable urban transport policy measures in transport models (Zsolt Berki)

**Kave room**

- A Transit Bottleneck Model for Waiting Passengers and its Implications for Traffic Assignment (Zoi Christoforou)
- Status of Land Use and Transport Modelling in Hungary (Bertalan Gaál)
- Conceptual analysis of ITS effect on SCGE models (István Fütyü)
- e-Payment as an Efficient Management Tool for Public Transport (János Monigil)

**Coffee Break**

**Traffic modeling and assessment (Michael Behrisch)**

- A Case Study in Istanbul E-80: Intelligent Speed Change at the Highway for Gas Emission (Alper Öner)

**Transport policy management 1 (Banihan Gunay)**

- Modelling and Analysis Methods of Integrated Information Systems of Transportation (Csaba Csiszár, Zsolt Sándor)
- Tackling sustainable urban transport policy measures in transport models (Zsolt Berki)

**Transport policy management 2 (Banihan Gunay)**

- A Case Study in Istanbul E-80: Intelligent Speed Change at the Highway for Gas Emission (Alper Öner)
- Modelling and Analysis Methods of Integrated Information Systems of Transportation (Csaba Csiszár, Zsolt Sándor)
- Tackling sustainable urban transport policy measures in transport models (Zsolt Berki)

**Transport logistics and economics (Dario Pacciarelli)**

- Dynamic Railway Diagnostic Measurement System (Imre Pechan)
- Modularity Built Composite Structured eBus Family (István Wahl)

**Plenary session - Tea room**

- Vektor System – the complex solution (Tamás Móricz)
- Dynamic Railway Diagnostic Measurement System (Imre Pechan)
- Modularity Built Composite Structured eBus Family (István Wahl)

**Lunch**

**BME campus**

- Traffic Control Lab - Group 1 (Péter Gáspár)
- Simulator Lab - Group 2 (Zsolt Szalay, Dániel Rohács)
- Traffic Control Lab - Group 2 (Péter Gáspár)

**BKK center**

- BKK Traffic Management Center - Group 3 (János Tóth)

**BKK traffic management center - group 3**

- A Case Study in Istanbul E-80: Intelligent Speed Change at the Highway for Gas Emission (Alper Öner)
- Traffic Control Lab - Group 2 (Péter Gáspár)
- Traffic Control Lab - Group 2 (Péter Gáspár)

**BKK traffic management center - group 4**

- A Variable Neighborhood Search for Optimal Scheduling and Routing of Take-off and Landing Aircraft (Marcella Sama)
- Modelling and Analysis Methods of Integrated Information Systems of Transportation (Csaba Csiszár, Zsolt Sándor)
- Tackling Sustainable Urban Transport Policy Measures in Transport Models (Zsolt Berki)

### Schedule of Events

- **09:00 – 10:30 AM**: Session on Traffic Emission and Control (Stefano Carrese)
- **10:30 – 11:00 AM**: Coffee Break
- **11:00 – 12:30 PM**: Session on Transport Policy Management 1 (Banihan Gunay)
- **12:30 – 01:30 PM**: Lunch
- **01:30 – 02:30 PM**: Session on Transport Logistics and Economics (Dario Pacciarelli)
- **02:30 – 03:30 PM**: Coffee Break
- **03:30 – 05:00 PM**: Session on A State-of-the-art Integrated Transportation Simulation Platform (Tiago Azevedo)
- **05:00 – 06:00 PM**: Closing Session