TECHNICAL PROGRAMME
## Full Programme

**Pre-Symposium Tour and Get Together Event:** Sunday, June 1st, 2014

16:00 - City Tour and Fesch Palace Visit
19:30 - Networking Reception (for symposium participants and Early Arrivals)

**Venue:** La Table du Hussard Restaurant, rue Fesch - Ajaccio

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### DAY 1: Monday, June 2nd, 2014

**08:00**

**On-site Registration**

**8:30-9:00**

*Symposium Chair Welcome – Nour-Eddin El Faouzi, LICIT, ENTEP-IIFSTTAR*
*The French Minister of Transport Frédéric Cuviller’s Welcome Speech (TBC)*
*Speech from our Sponsor LUTB Competitiveness Cluster “Transport and Mobility Systems”*

**9:00-9:45**

**Trajectories in 3D: Unifying Model Calibration and Network Performance Analysis**
*Prof. Hani Mahmassani, Northwestern University, USA.*

**9:45-10:00**

Coffee Break

**10:00-10:30**

**Plenary Session 1: Traffic Modeling, Calibration and Simulation**
Chairperson: Edward Chung, STRC, QUT, Australia

- Development of Dynamic Traffic Assignment System for Tokyo Metropolitan Expressways and Its Future Prospects - Hiroshi Warita, Koyama Shuichi, Yui Tamura, Horiguchi Ryota, Masao Kuwahara
- Solving large-scale urban transportation problems by combining the use of multiple traffic simulation models - Carolina Osorio, Krishna Sekam
- Macroscopic traffic flow model calibration using different optimization algorithms - Anastasia Spiropoulou, Ioannis Papamichail, Markos Papageorgiou
- Stochastic analytical dynamic queuing network model using spill-back - Gunnar Flöteröd, Carolina Osorio
- Calibration and validation of a Swedish space-time analytical model - Per Ström gren
- Simulating lane-changing dynamics towards lane-flow equilibrium based on multi-lane first order traffic flow model - Yasuhiro Shiomi, Tomoki Taniguchi, Nobuhiro Uno, Hiroshi Shimamoto, Toshiyuki Nakamura

**10:30-11:00**

**Development of Dynamic Traffic Assignment System for Tokyo Metropolitan Expressways and Its Future Prospects**
*Hiroshi Warita, Koyama Shuichi, Yui Tamura, Horiguchi Ryota, Masao Kuwahara*

**11:00-11:30**

**Macroscopic traffic flow model calibration using different optimization algorithms**
*Anastasia Spiropoulou, Ioannis Papamichail, Markos Papageorgiou*

**11:30-12:00**

**Stochastic analytical dynamic queuing network model using spill-back**
*Gunnar Flöteröd, Carolina Osorio*

**12:00-12:30**

**Calibration and validation of a Swedish space-time analytical model**
*Per Ström gren*

**12:30-13:00**

**Simulating lane-changing dynamics towards lane-flow equilibrium based on multi-lane first order traffic flow model**
*Yasuhiro Shiomi, Tomoki Taniguchi, Nobuhiro Uno, Hiroshi Shimamoto, Toshiyuki Nakamura*

**13:00-14:00**

**Lunch in Exhibit Hall**

**14:00-15:30**

**Session 1.1: Transport Modeling and Simulation**
Chairperson: Ludovic Leclercq, LICIT, IIFSTTAR, ENTEP

- Efficient Traffic Modeling and Control of Multiple Urban Intersections - Dora Lee Borg, Kenneth Seceri
- Dynamic road space allocation: simulation of current practices, towards dynamic allocation using ITS - Stéphane Espié, Pelrouz Koutini, Zabia Guessoum, René Mandiau
- A metamodel simulation-based optimization approach for the efficient calibration of stochastic traffic simulators - Carolina Osorio, Gunnar Flöteröd, Chao Zhang
- Latent Class Analysis for Driving Behavior on Merging Section - Masami Yanagihara, Nobuhiro Uno, Toshiyuki Nakamura
- Novcast Simulation Predicting Network Traffic Conditions by Assimilating Floating Car Data. Ryota Horiguchi, Hisatomo Hanabusa, Masato Kubo yoshi, Katsuki Koide, Takashi Oguchi

**14:00-14:30**

**Efficient Traffic Modeling and Control of Multiple Urban Intersections**
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**14:30-15:00**

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*Carolina Osorio, Gunnar Flöteröd, Chao Zhang*

**15:30-16:00**

**Latent Class Analysis for Driving Behavior on Merging Section**
*Masami Yanagihara, Nobuhiro Uno, Toshiyuki Nakamura*

**16:00-16:30**

**Novcast Simulation Predicting Network Traffic Conditions by Assimilating Floating Car Data**
*Ryota Horiguchi, Hisatomo Hanabusa, Masato Kubayashi, Katsuki Koide, Takashi Oguchi*

**16:30-16:45**

Coffee Break

**16:45-18:15**

**Session 2.1: Railway and LRT Transportation**
Chairperson: El-Houssaine Aghezzaf, Ghent University, Belgium

- Simulation of an innovative management of freight trains - Grégo ry Marlière, Paola Pellegrini, Joaquin Rodriguez
- Partial Traffic Signal Optimization for Large Multimodal Networks with Predictive Priority Strategies for Light Rail Transit - Aleksandar Stefanovic, Milan Zlatkovic, Jelka Stevanovic, Cameron Kergaye, Ivana Tasic, Marjia Ostoic
- Intelligent Framework for Safety Properties Checking of Complex Systems - Neistore Dorragi, El miloudi El Koursi, Simon Collart-Dutilleul
- Resilience of metro vehicle to blast events - Grégo ry Marlière, El miloudi El Koursi, Jean-Luc Bruyelle
- Traffic Data Effective Utilization for Innovative Parallel Computing System - Hiroki Yamazaki, Ushijima Satoru, Uno Nobuhiro

**16:45-17:15**

**Simulation of an innovative management of freight trains**
*Grégo ry Marlière, Paola Pellegrini, Joaquin Rodriguez*

**17:15-17:45**

**Partial Traffic Signal Optimization for Large Multimodal Networks with Predictive Priority Strategies for Light Rail Transit**
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**18:15-18:45**

**Resilience of metro vehicle to blast events**
*Grégo ry Marlière, El miloudi El Koursi, Jean-Luc Bruyelle*

**18:45-19:15**

**Traffic Data Effective Utilization for Innovative Parallel Computing System**
*Hiroki Yamazaki, Ushijima Satoru, Uno Nobuhiro*

**19:15-20:30**

Closing

**Social Event**
*Welcome Cocktail at the Ajaccio City Hall*
### DAY 2: Tuesday, June 3rd, 2014

**On-site Registration**

**Keynote II**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Monitoring and Support Plan for Evacuation Immediately after Natural Disaster Using Probe Data: A Case study at the Great-Est Japan Earthquake on March 11, 2011</td>
</tr>
<tr>
<td>08:45-9:45</td>
<td>Plenary Session II. Environmental Impact Assessment of Transportation Systems - Chairperson: Masao Kuwahara, Tohoku University, Japan</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Estimating pollutant emissions from aggregated traffic variables: the influence of data sources and sampling methods - Delphine Lejri, Cécile Bécarie, Ludovic Leclercq</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>ECOSTAND: towards a standard methodology for CO2 assessment of ITS Strategies - Matthieu Canaud, Nour-Eddin El Faouzi</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>Development of an Evaluation Method of the Effects of ITS on CO2 Emissions and Approaches to Promote Its Application - Daisuke Oshima, Masao Kuwahara, Takashi Oguchi, Mitsuo Yonezawa, Seiji Hayashi, Horiguchi Ryota</td>
</tr>
<tr>
<td>11:30-12:00</td>
<td>Influence of traffic demand patterns on vehicle emissions at a signalized intersection. Delphine Lejri, Simone La Spada, Ludovic Leclercq</td>
</tr>
<tr>
<td>12:30-13:00</td>
<td>Model City Competition Announcement</td>
</tr>
</tbody>
</table>

**Coffee Break**

### 13:00-14:00

**Lunch in Exhibit Hall**

### 14:00-16:00

**PARALLEL SESSIONS - 3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 3.1: ADAS and Cooperative Traffic Modeling - Chairperson: Hani Mahmassani, Northwestern University, USA</th>
<th>Session 3.2: Multimodal Transportation Systems - Chairperson: Jaume Barcelo, Technical University of Catalonia, Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30-15:00</td>
<td>Flocking Behavior Based Microscopic Cooperative Traffic Modelling - Simulation Studies - Maxime Gueriau, Romain Billot, Nour-Eddin El Faouzi</td>
<td>Data Mining tools to analyze the mobility of a Bike Sharing System - Andry Randriamananiraha, Etienne Cóme, Han Yufei, Latifa Oukhellou</td>
</tr>
<tr>
<td>15:00-15:30</td>
<td>Dynamic Estimation of Headway Distance in Vehicle Platoon System Using Particle Filter - Hironori Suzuki, Takashi Nakatsuki</td>
<td>Time-expanded mathematical programming models for multi-objective multi-modal trip planning problem - Sergey Kovalev, Romain Billot</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Effect evaluation of vehicle deconcentration control Algorithm in Weaving section under fully controlled condition in urban expressway - Shinji Tanaka, Naoyuki Hasegawa</td>
<td>Building a Topology of Bicycle Sharing Systems Users: Impact of the Normalization of Profiles - Guillaume Lozenguez, Ronan Hamon, Julien Barnier, Patrice Abry, Pierre</td>
</tr>
</tbody>
</table>

**Coffee Break and Networking**

### 16:05-17:45

**Visit of Napoleon's birth house – Meeting Point: Tourist Office (Office du Tourisme)**

**Gala Dinner**

Meeting Point: In front of the Conference Center at 19:15

### DAY 3: WEDNESDAY, June 4, 2014

**On-site registration**

**Keynote III**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 4.1: City Logistics and Freight Transportation - Chairperson: Alan Nicholson, University of Canterbury, New Zealand</th>
<th>Session 4.2: Network Modeling and OD Estimation - Chairperson: Latifa Oukhellou, IFSTTAR, France</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30-11:00</td>
<td>Analysis of the effects of pickup-delivery trucks on traffic flow dynamics - Nicolas Chabaut, Jean-Michel Sigrau, Guillaume Marques, Jesús Gonzalez-Felip</td>
<td>Gridlock probabilities via simulation-based signal control - Carolina Osorio, Xiao Chen, Michael Marsico, Mohamed Talas, Jannie Gao, Shitao Zhang</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>Simulation of Mutualized Urban Logistics Systems with Real-Time Management - Rafik Makhfoufi, Diego Cattaruzza, Frédéric Meunier, Nabil Abid, Dominique Feillet</td>
<td>Origin/Destination Matrices structure: Metrica based on spatial correlation. - Jordi Casas, Aleix Ruiz de Villa, Martijn Breen, Alex Forday</td>
</tr>
<tr>
<td>11:30-12:00</td>
<td>Traffic modelling of a cooperative charge while driving system in a freight transport scenario - Luca Castello, Francesco Dellorto</td>
<td>Development of a Network Traffic Simulator for Whole Inter-urban Expressways in Japan - Shoichi Hirai, Jian Xing, Tomoyoshi Shirasaka, Masato Kobayashi, Ryota Horiguchi</td>
</tr>
<tr>
<td>12:00-12:30</td>
<td>A revealed/declared preference approach to bus service configuration - Pascal Bourgeat</td>
<td>Multi-Objective Road Network Partitioning - Amir Meshkat, Jos Vrancken</td>
</tr>
<tr>
<td>12:30-13:00</td>
<td>Railway transportation efficiency improvement: loco health assessment by time domain data analysis to support Condition Based Maintenance implementation - Marco Capasso, Stefano Savio, Pierluigi Firpo, Gianluca Parisi</td>
<td>Investigating the mobile phone data to estimate the origin-destination flow and analysis; case study: Paris region. Anahid Nabavi Larijani, Ana-Maria Oftearu-Raimond, Julien Perret, Mathieu Brédif, Cezary Ziemlicki</td>
</tr>
</tbody>
</table>

**Coffee Break**

### 13:00-14:00

**Lunch in Exhibit Hall**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 5.1: Public Transport Modeling</th>
<th>Session 5.2: Incident Management and Network performances</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00 - 14:15</td>
<td>Chairperson: Ronghui Liu, University of Leeds, UK</td>
<td>Chairperson: Stephane Espié, IFSTTAR, France</td>
</tr>
<tr>
<td>14:30 - 15:00</td>
<td>Dynamic bus travel time prediction using floating car data - Deng Li, Zhong Xin, He Cheng</td>
<td>Incident Detection Methods using Probe Vehicles with on-board GPS Equipment - Yasuo Asakura, Takahiko Kusakabe, Takamasa Ushiki.</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Simulation and evaluation of a public transport priority methodology - Garyfalia Malandraki, Ioannis Papamichali, Markus Papageorgiou, Vaya Dinopouliou</td>
<td>A Study to consider the most appropriate alert point to assist crossing pedestrians at the intersection - Hidekatsu Hamaoka, Takamasa Ushiki.</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>Real-time forecasting the bus route state by data assimilation process: application to empirical data - Etienne Hans, Nicolas Chiabaut, Ludovic Leclercq, Robert Bertini</td>
<td>Impacts of Transition of the Traffic States on Traffic Accident Risk - Toshio Yoshii, Satoshi Hyodo, Yuki Takayama.</td>
</tr>
</tbody>
</table>

**Coffee Break**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 6.1: Driver’s Behaviors &amp; Lane Management</th>
<th>Session 6.2: Demand Modeling and Safety Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15 - 16:45</td>
<td>Chairperson: Christine Buisson, LICIT, IFSTTAR, ENTPE</td>
<td>Chairperson: Jean-Luc Ygnace, LICIT, IFSTTAR, ENTPE, France</td>
</tr>
<tr>
<td>17:45 - 18:15</td>
<td>Stochastic macroscopic models for highway traffic. Xavier Louis, Rémi Sainct, Alain Forestier</td>
<td>Processing traffic and road accidents data in two case studies of assessment - Régine Seidowsky, Simon Cohen, Maurice Aron.</td>
</tr>
<tr>
<td>18:15 - 18:30</td>
<td>Closing</td>
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Post-Symposium Tour (At one's own expenses): Thursday, June 5, 2014