### Draft Program

**Monday 23 July**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td><strong>Morning Tea</strong></td>
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</tbody>
</table>
| **10:10** | Automatic bottleneck detection using AVL data: a case study in Amsterdam  
(De-Identified)  
Federica Faïn, Denisa Husain, Roberto Roberti and Shadi SharifAzadeh |  
Solving periodic timetabling problems with SAT and machine learning  
(De-Identified)  
Federica Faïn, Denisa Husain, Roberto Roberti and Shadi SharifAzadeh |  
Examining the impact of Future Personalised Public Transport  
Oded Cats and Stefan Glück |  
Optimising mixed-route bus scheduling under range constraint  
(De-Identified)  
Yuval Hadas and Boaz Ben Moshe |  
Non-parametric approach for real-time prediction  
Magdalena Chodicka and Saverio Chapuis |  
A Mixed Integer Linear Programming Model for Robust Signal Redesign  
Andrea Helba, Vincenzo F. Nenci, Savio S. M. Lam, Yuanxin Fu and Xuejuan Li |  
Potential for wide-WiFi due to Mobility-as-a-Service: results from the Netherlands Mobility Panel  
Lucia Harry, Anne Szatmari and Sascha Neumann-Lamer |  
Towards Optimised Deployment of Electric Bus Systems with On-Route Charging  
using Cooperation ITS  
Marcus Smerdabjarn and Jesper Vithis |  
**11:30** | Assessment of models based on GPS data to identify buses skipping formal stops  
Magdalena Chodicka and Saverio Chapuis |  
A branch and price-and-cut method for train unit scheduling with complex minimum turnaround time requirements  
Yi Jiang and Avisahi Ceder |  
Optimising the Dispatching System of E-hailing Vehicles in Large Scale of Network  
Based on Two-stage Forecast Model  
Zhiyuan Lin, Pedro Jesús Copado-Mendez and Raymond Kwan |  
Optimising the Preventive-Maintenance Plan of a Public Transport Bus Fleet  
Omer Verbas, Vadim Sokolov, Joshua Auld and Hubert Ley |  |}

**Lunch**

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<tr>
<th>Time</th>
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| **13:00** | Big Data Sources from GPS-enabled Smartphone Applications: An Exploratory Analysis of Transit App Data  
(De-Identified)  
Viktoriya Degeler, Léonie Heydenrijk-Ottens, Ding Luo, Niels van Oort and Hans van Lint |  
Resolution of Station Level Constraints in Train Unit Scheduling  
(De-Identified)  
Lu Li, Hong Lo and Feng Xiao |  
A stochastic-heuristic-supported evaluation of the suitability of an urban integrated special transport service  
(De-Identified)  
Menno Yap and Niels van Oort |  
Minimizing the waiting time in timetabling  
(De-Identified)  
Menno Yap and Niels van Oort |  |
| **13:30** | Posterior tracking of passengers to analyze public transport use in case of disturbances  
(De-Identified)  
Viktoriya Degeler, Léonie Heydenrijk-Ottens, Ding Luo, Niels van Oort and Hans van Lint |  
Relationships between capacity, speed heterogeneity, and robustness in railway networks  
(De-Identified)  
Menno Yap and Niels van Oort |  
Design of integrated flexible transit service with given flood-route services  
(De-Identified)  
Menno Yap and Niels van Oort |  
Frequency and Vehicle Capacity Determination using a Dynamic Transit Assignment Model  
(De-Identified)  
Menno Yap and Niels van Oort |  |
| **14:00** | Finalized Fossil Flushing of Public Transportation Passengers  
(De-Identified)  
Viktoriya Degeler, Léonie Heydenrijk-Ottens, Ding Luo, Niels van Oort and Hans van Lint |  
Train dispatching and distressing problem in high-speed railway networks  
(De-Identified)  
Viktoriya Degeler, Léonie Heydenrijk-Ottens, Ding Luo, Niels van Oort and Hans van Lint |  
Integrated Public Transport Operations Planning in Developing Countries: Analysis of Travel Demand Characteristics and Operational Efficiency of Bus and Paratransit Services in Vishakhapatnam, India  
(De-Identified)  
Alessio D. Marra, Henrik Becker, Kay W. Ahlwaes and Francesca Gomara |  
Minimizing the waiting time in timetabling  
(De-Identified)  
Menno Yap and Niels van Oort |  |
| **14:30** | Afternoon Tea |  |
| **15:00** | **Plenary 2: Lauren Sager Weinstein** |  |
| **15:10** | Time schedule efficiency vs. public transport robustness: A framework to quantify the trade-off based on passive data  
(De-Identified)  
Richard Adriaan Böhme and Mathias Packe |  
The Limited Beratation Method: A Hybridised Heuristic for Train Unit Scheduling Optimization  
(De-Identified)  
Marcus Smerdabjarn and Jesper Vithis |  
Evaluating the use of ID-Rows benchmarked from APC and AFC Data to Correct Sample and Response Biases in Transit Onboard Survey Results  
(De-Identified)  
Menno Yap and Niels van Oort |  
Stopping Patterns and Frequency Determination for a Multi-Modal Network  
(De-Identified)  
Menno Yap and Niels van Oort |  |
| **16:00** | Combined use of Geosocial and WiFi detections to estimate real-time operational information of a public transport system  
(De-Identified)  
Menno Yap and Niels van Oort |  
Leader train combination problem at marshalling station in heavy haul railways  
(De-Identified)  
Menno Yap and Niels van Oort |  
Time-Dependent Capacitated Transit Routing with Real-Time Demand and Supply Data  
(De-Identified)  
Menno Yap and Niels van Oort |  
Modelling Turn in Transit Network Design  
(De-Identified)  
Menno Yap and Niels van Oort |  |
| **16:30** | Unsupervised approach to bunching swiss phenomenon analysis  
(De-Identified)  
Menno Yap and Niels van Oort |  
Hybrid stochastic approaches for train trajectory reconstruction  
(De-Identified)  
Menno Yap and Niels van Oort |  
Tradeoff between Processing Time and Solution Quality for an A* Guided Heuristic Applied to a Multi-Objective Bus Passenger Trip Planning Problem  
(De-Identified)  
Menno Yap and Niels van Oort |  
Integrating trip planning, timetabling and vehicle scheduling: integer programming formulation and analysis  
(De-Identified)  
Menno Yap and Niels van Oort |  |
<p>| <strong>17:00</strong> | <strong>Social Activity</strong> |  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:00</td>
<td>Registration Desk Opens</td>
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<tr>
<td>8:10</td>
<td>Plenary 1: David Hensher</td>
<td>A Next Year Forecast of an Open Source Real-time Information System</td>
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<td>9:00</td>
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<tr>
<td>10:30</td>
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<td>11:30</td>
<td>Plenary 4: David Hensher</td>
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<td>13:30</td>
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<tr>
<td>15:30</td>
<td>Afternoon Tea</td>
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<tr>
<td>16:30</td>
<td>Workshop</td>
<td>A Next Year Forecast of an Open Source Real-time Information System</td>
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<tr>
<td>17:00</td>
<td>Conference Dinner</td>
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Wednesday 25 July

8:00 Registration Desk Opens

8:10 Plenary 1: David Hensher

9:00 Plenary 2: David Hensher

10:00 Morning Tea

10:30 Plenary 3: David Hensher

11:30 Plenary 4: David Hensher

13:30 Lunch

15:30 Afternoon Tea

16:30 Workshop

17:00 Conference Dinner