### INVITED SESSION SUMMARY

<table>
<thead>
<tr>
<th>Title of Session:</th>
<th>Multi-Agent Systems in Transportation Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name, Title and Affiliation of Chair:</strong></td>
<td>Dr. Mahdi Zargayouna, IFSTTAR, France</td>
</tr>
<tr>
<td><strong>Details of Session (including aim and scope):</strong></td>
<td>The purpose of this session is to bring researchers and practitioners together to discuss how agents and multi-agent systems technologies can be used to model, simulate, optimize and manage nowadays large-scale, heterogeneous, multimodal and complex transportation systems. We are looking for research papers, case studies and practitioners’ reports on the implementation and use of multi-agent systems in all areas related to all the modes of transportation and logistics.</td>
</tr>
</tbody>
</table>
| **Topics:** | ✓ Applications of Multi-Agent Systems in traffic, transportation, and transport logistics  
✓ Optimization (e.g., traffic assignment, routing, route choice)  
✓ Autonomic transportation systems  
✓ Coordination in intelligent transportation systems  
✓ Intelligent, adaptive traffic control  
✓ Distributed decision making in traffic, transportation and transport logistics  
✓ Multi-agent systems for intelligent vehicles  
✓ Mobile devices in smart transportation systems  
✓ Autonomous vehicles and collaborative driving  
✓ Self-* properties of traffic systems  
✓ Agent-based approaches to modelling driver behaviour  
✓ Agent-based simulation of traffic and transportation systems  
✓ Agent-based pedestrian and crowd simulation  
✓ Shared and on-demand mobility (car sharing, ride sharing, Mobility as a Service, etc.) |
| **Main Contributing Researchers / Research Centres (tentative, if known at this stage):** | Dr. Jean-Michel Auberlet (IFSTTAR, France)  
Prof. Favien Balbo (Mines Saint-Etienne, France)  
Prof. Dariusz Barbucha (Gdynia Maritime University, Poland)  
Prof. Khaled Ghédira (Central University, Tunisia)  
Prof. Francziska Klugl (Orebro University, Sweden)  
Prof. René Mandiau (Valenciennes University, France)  
Prof. Philippe Mathieu (Lille University, France)  
Prof. Omer Rana (Cardiff University, UK)  
Dr. Julien Saunier (Mines Saint-Etienne, France)  
Prof. Gérard Scemama (IFSTTAR, France)  
Dr. Giuseppe Vizzari (UNIMIB, Italy) |
| **Website URL of Call for Papers (if any):** | [http://amsta-19.kesinternational.org/cms/userfiles/is01.pdf](http://amsta-19.kesinternational.org/cms/userfiles/is01.pdf) |
| **Email & Contact Details:** | hamza-mahdi.zargayouna@ifsttar.fr |