

## INVITED SESSION SUMMARY

Title of Session: Multi-Agent Systems in Transportation Systems

### Name, Title and Affiliation of Chair:

Dr. Mahdi Zargayouna, Université Gustave Eiffel, France

### Details of Session (including aim and scope):

This session aims to bring researchers and practitioners together to discuss how agents and multiagent systems technologies can be used to model, simulate, optimize and manage nowadays largescale, 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.

#### **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 (Université Gustave Eiffel, France)
- Prof. Favien Balbo (Mines Saint-Etienne, France)
- Prof. Dariusz Barbucha (Gdynia Maritime University, Poland)
- Prof. Khaled Ghédira (Central University, Tunisia)
- Dr. Sebastian Hörl (SystemX, France)
- 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 Mohamed Rahal (VEDECOM, France)
- Dr Julien Saunier (Mines Saint-Etienne, France)
- Prof. Gérard Scemama (Université Gustave Eiffel, France)
- Dr Giuseppe Vizzari (UNIMIB, Italy)
- Dr Besma Zeddini (CY Tech, France)

## Website URL of Call for Papers (if any):

# **Email & Contact Details:**

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