

W9 – ATT Agents in Traffic and Transportation Workshop Program

SESSION 1: COORDINATION AND CONTROL

- 09:00 Marcelo Lopes de Lima and Eduardo Camponogara
Urban Traffic Network Control by Distributed Satisficing Agents
- 09:25 Takashi Shirai, Yujiro Konaka, Junji Yano, Shigeki Nishimura, Kouji Kagawa, Tetsuo Morita, Masayuki Numao and Satoshi Kurihara
Multi-agent Traffic Light Control Framework Based on Direct and Indirect Coordination
- 09:50 Adriaan ter Mors
Comparing Context-Aware Routing and Local Intersection Management

10:20 COFFEE BREAK

SESSION 2: PLANNING AND ROUTING

- 10:50 Jan Hrnčíř and Michael Rovatsos
Applying Strategic Multiagent Planning to Real-World Travel Sharing Problems
- 11:15 Petr Kalina and Jiří Vokřínek
Algorithm for Vehicle Routing Problem with Time Windows Based on Agent Negotiation
- 11:40 Logan Yliniemi and Kagan Tumer
Coevolution and Transfer Learning in a Heterogeneous, Point-to-Point Fleet Coordination Problem
- 12:05 Jörg Dallmeyer, René Schumann, Andreas Lattner and Ingo Timm
Don't Go with the Ant Flow: Ant-inspired Traffic Routing in Urban Environments
- 12:30 Vincent Baines and Julian Padget
Communication and Metrics in Agent Convoy Organization

13:00 LUNCH BREAK

SESSION 3: PEDESTRIANS AND DRIVERS

- 14:20 Giuseppe Vizzari, Lorenza Manenti, Kazumichi Ohtsuka and Kenichiro Shimura
An Agent-Based Approach to Pedestrian and Group Dynamics: Experimental and Real World Scenarios
- 14:45 Gennady Waizman, Shraga Shoval and Itzhak Benenson
Micro-Simulation Model for Assessing the Risk of Car-Pedestrian Road Accidents
- 15:10 Yi Luo and Ladislau Bölöni
Modeling the Conscious Behavior of Drivers for Multi-lane Highway Driving
- 15:35 Avi Rosenfeld, Zevi Bareket, Claudia Goldman, Sarit Kraus, David LeBlanc and Omer Tsinomi
Learning Driver's Behavior to Improve Adaptive Cruise Control

16:00 COFFEE BREAK

SESSION 4: DATA AND SIMULATION

- 16:30 Paul Bouman, Milan Lovric, Ting Li, Evelien van der Hurk, Leo Kroon and Peter Vervest
Recognizing Demand Patterns from Smart Card Data for Agent-Based Micro-simulation of Public Transport
- 16:55 Jie Chen, Kian Hsiang Low, Colin Keng-Yan Tan, Ali Oran and Patrick Jaillet
Decentralized Data Fusion and Active Sensing with Mobile Sensors for Modeling and Predicting Spatiotemporal Traffic Phenomena
- 17:20 Luis Miguel Martinez, Gonçalo Correia and José Viegas
An Agent-Based Model to Assess the Impacts of Introducing a Shared-Taxi System in Lisbon (Portugal)

17:45 CLOSING SESSION