

MFTS&VIMOS 2022 Programme Schedule

Wednesday, November 30, 2022

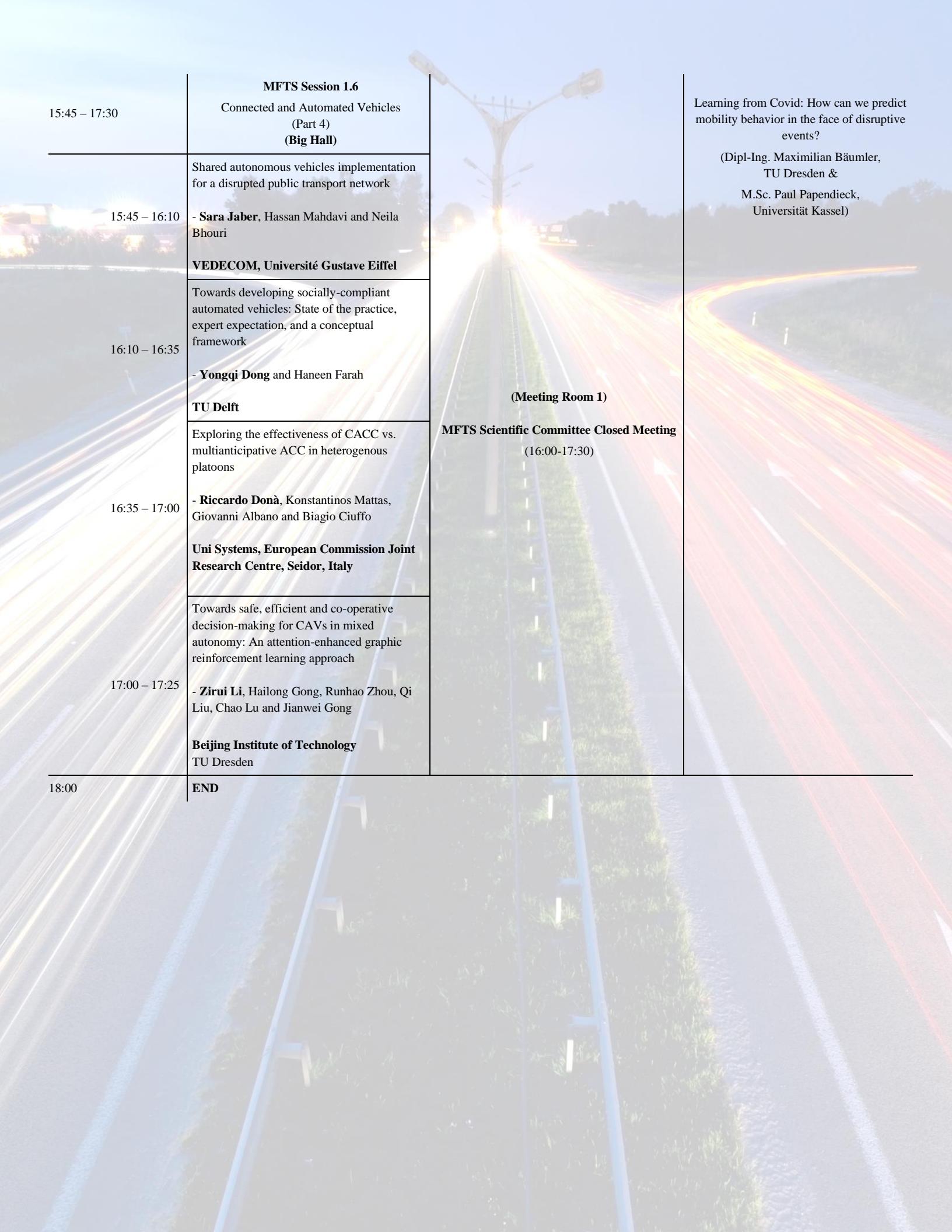
	Registration and Reception Venue of Symposium: Sächsische Aufbaubank – SAB Pirnaische Straße 9 01069 Dresden		
10:00			
10:30 – 12:00	Workshop: How to integrate human aspects into traffic modeling and simulations? – Social contextualization of motorway and urban traffic systems (Dr. phil. Sandra Buchmüller and Dipl.-Ing. Susanne Wunsch, TU Dresden)		
12:00 – 13:00	Registration, Coffee & Snack		
13:00 – 13:15	Welcome & Introduction (Prof. Dr. Meng Wang, TU Dresden)		
13:15 – 13:30	Welcome address (Univ.-Prof. Dr.-Ing. Regine Gerike, TU Dresden)		
13:30 – 13:50	Special guest: Saxony State Ministry for Economic Affairs, Labor and Transport		
13:50 – 14:50	Keynote (Prof.dr.ir. Serge Hoogendoorn, TU Delft)		
14:55 – 16:10	MFTS Session 1.1 Traffic Control in Conventional Traffic (Big Hall)	MFTS Session 2.1 New Mobility Systems (Meeting Room 1)	VIMOS Session 1 <i>(in German)</i> (Meeting Room 2)
14:55 – 15:20	Dynamic cycle time in traffic signal of cyclic max-pressure control - Razi Zoabi and Jack Haddad Technion Sustainable Mobility and Robust Transportation (T-SMART) Laboratory	A stop-less bus service paradigm using autonomous modular buses - Zaid Saeed Khan and Mónica Menéndez New York University	Autonomes Fahren im ÖPNV – zum neuen Rechtsrahmen für autonome öffentliche Verkehrsangebote und offene Regulierungsfragen - Emanuele Leonetti Verband Deutscher Verkehrsunternehmen e.V.
15:20 – 15:45	A deep reinforcement learning approach for dynamic traffic light control with transit signal priority - Tobias Nousch , Runhao Zhou, Django Adam, Angelika Hirle and Meng Wang TU Dresden	An integrated ride-matching model for shared mobility on demand services - Kerem S. Tuncel, Haris N. Koutsopoulos and Zhenliang Ma Northeastern University KTH Royal Institute of Technology	Teleoperiertes Fahren und Remote Control via 5G – Vision oder nahe Realität - Dr. Thomas Otto, Dr. Jörg Holfeld Fraunhofer-Institut für Verkehrs- und Infrastruktursysteme IVI
15:45 – 16:10	AI-based multi-class traffic model oriented to freeway traffic control - Binjaku Kleona , C. Pasquale and S. Sacone University of Geona	A new model for electric vehicle mobility and energy consumption in urban traffic networks - Carlos Canudas-de-Wit, Martin Rodriguez-Vega and Giovanni De Nunzio CNRS, GIPSA-Lab Rond/point de Lechangeur de Soliaye	Auswirkungen von verschiedenen Angebots-Nachfrage-Verhältnissen auf die Serviceeffizienz von Ridetpooling-Systemen: Eine Simulationsstudie - Dennis Harman, Bernhard Friedrich TU Braunschweig
16:10 – 16:25	BREAK		

16:25 – 17:40	MFTS Session 1.2 (Big Hall)	MFTS Session 2.2 Traffic Control in Conventional Traffic (Meeting Room 1)	VIMOS Session 1.2 (in German) (Meeting Room 2)
16:25 – 16:50	On how traffic signals impact the fundamental diagrams of urban roads - Chao Zhang , Yechen Li, Neha Arora and Carolina Osorio Google Research Hec Montréal	Tradable credit scheme for multimodal urban network - Louis Batzer , Mostafa Ameli, Ludovic Leclercq and Jean-Patrick Lebacque Université Gustave Eiffel	So gestaltet Baden-Württemberg klimafreundliche Mobilität mit offenen Mobilitätsdaten – MobiData BW als verkehrsübergreifende Integrationsplattform für mobilitätsrelevante Daten - Manuel Hautzinger NVBW – Nahverkehrsgesellschaft Baden-Württemberg mbH (NVBW)
	Modeling the potential impacts of AVs on pollutant emissions under different scenarios in zalazone test track - Zelalem Birhanu Biramo and Anteneh Aferwork Mekonen Budapest University of Technology and Economics	Data-driven methods for identifying travel conditions based on traffic and weather characteristics - Georgia Ayfantopoulou, Evangelos Mintsis , Zisis Maleas, Evangelos Mitsakis, Josep Maria Salanova Grau, Vassilis Mizaras and Panagiotis Tzenos Centre for Research and Technology Hellas, Thessaloniki	Die Mobilithek – Die neue Online-Plattform für Mobilitätsdaten in Deutschland - Peter Lubrich Bundesanstalt für Straßenwesen (BAST)
	Multi-objective anticipatory mixed fuel green vehicle routing of connected and automated vehicles - Saba Sabet and Bilal Farooq Ryerson University	Automatic design of optimal actuated traffic signal control with transit signal priority - Mahmud Keblawi and Tomer Toledo Israel Institute of Technology	Umweltsensorik im Signalgeber – Neue Möglichkeiten bei bestehender Infrastruktur - Michael Preuss SWARCO FUTURIT Verkehrssignalsysteme Ges.m.b.H.
18:00	DINNER Venue of Dinner Event: Luisenhof Dresden Bergbahnstraße 8 01324 Dresden		

Thursday, December 01, 2022

09:00 – 10:00	Keynote (Prof. Dr. Ludovic Leclercq, Université Gustave Eiffel)		
10:05 – 11:20	MFTS Session 1.3 Connected and Automated Vehicles (Part 1) (Big Hall)	MFTS Session 2.3 Demand and Traffic Management (Part 1) (Meeting Room 1)	VIMOS Session 1.3 <i>(in German)</i> (Meeting Room 2)
10:05 – 10:30	Introducing the platoon fundamental diagram for automated vehicles based on worldwide observations - Michail A. Makridis and Anastasios Kouvelas IVT, ETH, Zurich	GPS-based route choice models for traffic management - Anna Danielsson , David Gundlegard, Clas Rydbergren and Nikolaos Tsanakas Lindköping University	Nutzung automatisierter Fahrzeuge für die Ermittlung makroskopischer Kennwerte im Urbanen Netzwerk - Sefa Yilmaz-Niewerth, Prof. Dr.-Ing. Bernhard Friedrich TU Braunschweig
10:30 – 10:55	Distributed ordering and optimization for intersection management with connected and automated vehicles - Francesco Vitale and Claudio Roncoli Aalto University	A macroscopic approach for the on-time arrival problem - Charalampos Menelaou , Stelios Timotheou, Panayiotis Kolios and Christos G. Panayiotou University of Cyprus	Auf dem Weg zu datengetriebener Echtzeitsimulation im Verkehrsmanagement - Dr. Martin Hartmann Aimsun
10:55 – 11:20	A lateral positioning strategy for connected and automated vehicles in lane-free traffic - Ioannis Faros, Venkata Karteek Yanumula, Panagiotis Typaldos, Ioannis Papamichail and Markos Papageorgiou TU Crete Ningbo University	Delineation of traffic analysis zone for public transportation OD matrix estimation based on socio-spatial practices - S. M. Hassan Mahdavi Moghaddam , Mostafa Ameli, K. Rao Ramachandra and Geetam Tiwari VEDECOM mobiLAB, Université Gustave Eiffel Department of Civil Engineering, IIT Delhi	Optimierte Rettungsmobilität mit Infrastrukturunterstützung im 5G-Reallabor - Joachim Schade
11:20 – 11:35	BREAK		
11:35 – 12:50	MFTS Session 1.4 Connected and Automated Vehicles (Part 2) (Big Hall)	MFTS Session 2.4 Demand and Traffic Management (Part 2) (Meeting Room 1)	VIMOS Session 1.4 <i>(in German)</i> (Meeting Room 2)
11:35 – 12:00	A cooperative game approach to discretionary lane changing of connected autonomous vehicles - Seiran Heshami and Lina Kattan University of Calgary	Multi-vehicle stochastic fundamental diagram consistent with transportation systems theory - Giulio E. Cantarella , E. Cipriani, A. Gemma, O. Giannattasio and L. Mannini University of Salemo University of Roma Tre	Auf dem Weg zu einer Datenbasis für die mikroskopische Modellierung des urbanen Wirtschaftsverkehrs - Lasse Bienzeisler TU Braunschweig
12:00 – 12:25	Traffic-based control of truck platoons on freeways - A. Bozzi, Tommy Chaanine , S. Graffione, C. Pasquale, R. Sacile, S. Sacone and S. Siri University of Genoa	Analysis of the relationship between string stability and hysteresis in traffic flow - Giovanni Albano , Konstantinos Mattas, Riccardo Donà, Y. He and Biagio Ciuffo Uni Systems, European Commission Joint Research Centre, Seidor, Italy	Voll grafikfähige Verkehrs-Informationstafeln des LASuV als Erstanwendung des Leistungsspektrums der VAMOS4-Verkehrsmanagement-Architektur - Matthias Körner, Sebastian Pape, Henning Jeske TU Dresden

12:25 – 12:50	<p>Simulation methods for mixed legacy-autonomous mainline train operations - Emily J. Morey, R. E. Wilson and K. Galvin University of Bristol</p>	<p>A stochastic programming method for OD estimation using LBSN check-in data - Qinglong Lu, Moeid Quarashi and Constantinos Antoniou TU Munich TU Dresden</p>	<p>C-ITS Anwendungen für ÖPNV und Straßenverkehr im Projekt LOGIN Hannover - Czogalla, Olaf, Naumann Sebastian</p>
12:50 – 13:50	LUNCH		
13:50 – 15:30	<p>MFTS Session 1.5 Connected and Automated Vehicles (Part 3) (Big Hall)</p>		<p>MFTS & VIMOS Session (in German & English) (Meeting Room 2)</p>
13:50 – 14:15	<p>Perception tasks in automated driving: A conceptual model for microscopic traffic simulation - Postigo Ivan, Johan Olstam and Clas Rydbergren Linköping University</p>	<p>(Meeting Room 1) Spotlight Session: Challenges of traffic and transport management in practice (Change methods and ideas with real transport practitioners)</p>	<p>Using Drone video data analysis to have a more precise understanding of the spatiotemporal characteristics of traffic on highways - Milad Abarghooie SCHWIETERING Ingenieure GmbH</p>
14:15 – 14:40	<p>Impact of car-following and controller formulations on motion planning of autonomous vehicles - Narayana Raju and Haneen Farah TU Delft</p>	<p>Panelists: Dr. Christian Leitzke, Landesamt für Straßenbau und Verkehr (Saxony authority for road construction and transport),</p>	<p>MPC-based trajectory planning and tracking model - Yuxia Yuan, Xinwei Wang, Riender Happee and Meng Wang TU Delft TU Dresden</p>
14:40 – 15:05	<p>GLOSA system with uncertain green and red signal phases - Panagoitis Typaldos, Petros Koutsas, Ioannis Papamichail and Markos Papageorgiou TU Crete</p>	<p>Christian Gassel, Dresdner Verkehrsbetriebe AG (Dresden transport company), ... (Other panelists will be announced later)</p>	<p>BREAK</p>
15:05 – 15:30	<p>Can dedicated lanes for automated vehicles on urban roads improve traffic efficiency? - Gabriel Tilg, S. Krause, P. N. Stueger and K. Bogenberger TU Munich</p>		
15:30 – 15:45	BREAK		<p>(Meeting Room 2) MOTUS Workshop: (14:50 – 17:50)</p>



15:45 – 17:30	MFTS Session 1.6 Connected and Automated Vehicles (Part 4) (Big Hall)		Learning from Covid: How can we predict mobility behavior in the face of disruptive events? (Dipl.-Ing. Maximilian Bäumler, TU Dresden & M.Sc. Paul Papendieck, Universität Kassel)
15:45 – 16:10	Shared autonomous vehicles implementation for a disrupted public transport network - Sara Jaber , Hassan Mahdavi and Neila Bhouri VEDECOM, Université Gustave Eiffel		
16:10 – 16:35	Towards developing socially-compliant automated vehicles: State of the practice, expert expectation, and a conceptual framework - Yongqi Dong and Haneen Farah TU Delft	(Meeting Room 1)	MFTS Scientific Committee Closed Meeting (16:00-17:30)
16:35 – 17:00	Exploring the effectiveness of CACC vs. multianticipative ACC in heterogenous platoons - Riccardo Donà , Konstantinos Mattas, Giovanni Albano and Biagio Ciuffo Uni Systems, European Commission Joint Research Centre, Seidor, Italy		
17:00 – 17:25	Towards safe, efficient and co-operative decision-making for CAVs in mixed autonomy: An attention-enhanced graphic reinforcement learning approach - Zirui Li , Hailong Gong, Runhao Zhou, Qi Liu, Chao Lu and Jianwei Gong Beijing Institute of Technology TU Dresden		
18:00	END		

Friday, December 02, 2022

09:00 – 10:00	Keynote (Prof. Dr. rer. nat. MA Marc Timme, TU Dresden)		
10:05 – 11:45	MFTS Session 1.7 Traffic Flow and Simulation (Big Hall)	MFTS Session 2.5 Traffic Control in Automated Traffic (Meeting Room 1)	MFTS Session 3 User Behavior and Safety (Meeting Room 2)
10:05 – 10:30	The importance of fine-grained dynamics in the origin-destination matrix estimation - Yiolanda Englezou , Stelios Timotheou and Christos G. Panayiotou University of Cyprus	Prioritization of an automated shuttle for V2X public transport at a signalized intersection – a real-life demonstration - Maik Halbach , Daniel Wesemeyer, Lukas Merk, Jan Lauermann, Daniel Heß and Robert Kaul DLR – German Aerospace Center	Reachability-based confidence-aware probabilistic collision detection in highway driving - Xinwei Wang , Zirui Li, Javier Alonso-Mora and Meng Wang TU Delft TU Dresden
10:30 – 10:55	A roundD-like roundabout scenario in CARLA simulator - Ali Nadar , Mathis Lafon and Jérôme Härri Commnunications systems EURECOM	Hierachical speed harmonization control for mixed traffic - Kinda Chakas, Lina Kattan and Seiran Heshami University of Calgary	Local traffic safety analyzer (LTSA) – Improved road safety and optimized signal control for future urban intersections - Kim Jannik Eggers , Robert Oertel and Martin Hesse DLR – German Aerospace Center
10:55 – 11:20	Implementation of tradable credit scheme in the integrated agent-based urban simulator SimMobility - Renming Liu , Ravi Seshadri, Yu Jiang and Carlos Lima Azevedo TU Denmark	Multimodal performance evaluation of urban traffic control: A microscopic simulation study - Natalie Sautter , Lisa Kessler, Danil Belokhov and Klaus Bogenberger TU Munich	Towards efficient incident detection in real-time management - Ferran Torrent-Fontbona, Monica Dominguez , Javier Fernandez Frade and Jordi Casas Aimsun SLU
11:20 – 11:45	A MILP framework to solve the sustainable system optimum with link MFD functions - Niloofar Shakoori , Giovanni De Nunzio and Ludovic Leclercq IFP Energies nouvelles, Université Gustave Eiffel	Exploiting deep learning and traffic models for freeway traffic estimation - Alexander Genser, Michail A. Makridis and Anastasios Kouvelas ETH	DAVE – Data collection and algorithm development for traffic conditions determination based on cooperative vehicle messages (C2X) - Matthias Körner , Sebastian Pape, Django Adam and Maximilian von Münchow TU Dresden
11:45 – 12:00	BREAK with Snack		
12:00 – 12:20	Sponsorship Session (Yunex GmbH & SAENA GmbH)		
12:20 – 12:40	CLOSING Ceremony		