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MP1L Nautilus Ballroom
Parallel Control and Management for Intelligent Transportation Systems: Theory, Methods, and Applications (Plenary Session)

09:15-10:00 MP1L.1
*Parallel Control and Management for Intelligent Transportation Systems: Theory, Methods, and Applications**.
 Wang, Fei-Yue Univ. of Arizona

MP2L Nautilus Ballroom
Harnessing Charging Power: The Communication Issues of Electric Vehicle Charging Infrastructure from a Standardization Point of View (Plenary Session)

10:00-10:45 MP2L.1
*Harnessing Charging Power: The Communication Issues of Electric Vehicle Charging Infrastructure from a Standardization Point of View**.
 Van den Bossche, Peter Erasmus Univ. Coll. Brussels

MA1 Buzio I
Traffic Simulation, Estimation, and Control Using Cell-Based Models (Regular Session)

11:20-11:40 MA1.1
Online Control of Signalized Networks Using the Cell Transmission Model, pp. 1-6.

Pohlmann, Tobias Tech. Univ. Braunschweig
 Friedrich, Bernhard Tech. Univ. Braunschweig

11:40-12:00 MA1.2
Cell-Based Simulation and Estimation of Urban Traffic Network, pp. 7-12.

Chen, Chenyi Tsinghua Univ.
 Hu, Jianming Tsinghua Univ.
 Wang, Yin Tsinghua Univ.

12:00-12:20 MA1.3
On Freeway Traffic Density Estimation for a Jump Markov Linear Model Based on Daganzo's Cell Transmission Model, pp. 13-18.

Stankova, Katerina Delft Univ. of Tech.
 De Schutter, Bart Delft Univ. of Tech.

12:20-12:40 MA1.4
Fuzzy Observer for State Estimation of the METANET Traffic Model, pp. 19-24.

Hidayat, Zulkifli Delft Univ. of Tech.
 Lendek, Zsafia TU Delft
 Babuska, Robert TU Delft
 De Schutter, Bart Delft Univ. of Tech.

MA2 Buzio II
Traffic Emissions: Modeling, Sensing, Evaluation, and Management 1 (Regular Session)

11:20-11:40 MA2.1
Development of Fuel and Emission Models for High Speed Heavy Duty Trucks, Light Duty Trucks, and Light Duty Vehicles, pp. 25-32.

Park, Sangjun Virginia Tech. Transportation Inst.
 Rakha, Hesham A. Virginia Tech.
 Farzaneh, Mohamadreza Texas A&M Univ.
 Zietsman, Josias Texas Transportation Inst.
 Lee, Doh-Won Texas Transportation Inst.

11:40-12:00 MA2.2
A New Method to Calculate Emissions with Simulated Traffic Conditions, pp. 33-38.

Hirschmann, Karin Tech. Univ. Graz
 Zallinger, Michael Tech. Univ. Graz
 Fellendorf, Martin Tech. Univ. Graz
 Hausberger, Stefan Tech. Univ. Graz

12:00-12:20 MA2.3
Solutions for Enhancing Remote Sensing High Emitter Vehicle Screening Procedures, pp. 39-46.

Rakha, Hesham A. Virginia Tech.
 Park, Sangjun Virginia Tech. Transportation Inst.

Marr, Linsey Virginia Tech.

12:20-12:40 MA2.4

Traffic Simulator NETSTREAM for Evaluation of CO2 Emissions, pp. 47-53.

Mori, Hiroko Toyota Central R&D Lab.
 Kitaoka, Hironobu Toyota Central R&D Lab.
 Ishida, Masaya Toyota Central R&D Lab.
 Asakura, Yasuo Kobe Univ.

12:40-13:00 MA2.5
Analysis of the Major World Strategies for Reducing the Emission of Greenhouse Gases Generated by Public and Private Transport, pp. 54-59.

Reis, Adriana Military Inst. of Engineering
 Amorim, José Carlos Military Inst. of Engineering
 Pereira, Carlos Rural Federal Univ. of Rio de Janeiro

MA3 Cipeira I
Traffic Control (Regular Session)

11:20-11:40 MA3.1
A Surrogate Approach for the Global Optimization of Signal Settings and Traffic Assignment Problem, pp. 60-65.

Adacher, Ludovica Roma Tre Univ.
 Cipriani, Ernesto Roma Tre Univ.

11:40-12:00 MA3.2
A Vision Assisted Geoinformation Inventory for Traffic Infrastructure, pp. 66-73.

Segvic, Sinisa Univ. of Zagreb, Faculty of Electrical Engineering and Comp
 Brkic, Karla Faculty of Electrical Engineering and Computing
 Kalafatic, Zoran Univ. of Zagreb, Faculty of Electrical Engineering and Comp
 Stanisavljevic, Vladimir Tilda Software Systems
 Sevrovic, Marko Inst. of transport and communications
 Budimir, Damir Univ. of Zagreb, Faculty of Transport and Traffic Sciences
 Dadic, Ivan Univ. of Zagreb, Faculty of Transport and Traffic Sciences

12:00-12:20 MA3.3
A Novel CAM-Based Traffic Light Preemption Algorithm for Efficient Guidance of Emergency Vehicles, pp. 74-79.

Unibaso, Galder TECNALIA-TELECOM
 Del Ser, Javier TECNALIA-TELECOM
 Gil-Lopez, Sergio TECNALIA-TELECOM
 Molinete, Begoña TECNALIA-TELECOM

12:20-12:40 MA3.4
Effects of ITS-Based Left Turn Policies on Network Performance, pp. 80-84.

Hajbabaie, Ali Univ. of Illinois at Urbana Champaign
 Medina, Juan C Univ. of Illinois at Urbana - Champaign
 Benekohal, Rahim F. Univ. of Illinois Urbana-Champaign

12:40-13:00 MA3.5
Continuous Flow Intersections: A Safety and Environmental Perspective, pp. 85-90.

Park, Sangjun Virginia Tech. Transportation Inst.
 Rakha, Hesham A. Virginia Tech.

MA4 Cipeira II
Imaging and Image Analysis 1 (Regular Session)

11:20-11:40 MA4.1
B-Spline-Based Road Model for 3D Lane Recognition, pp. 91-98.

Loose, Heidi Daimler AG
 Franke, Uwe Daimler AG

11:40-12:00 MA4.2
Evaluation of Feature-Based Vehicle Trajectory Extraction Algorithms, pp. 99-104.

Kim, ZuWhan Univ. of California, Berkeley
 Cao, Meng Univ. of California, Riverside

12:00-12:20 MA4.3
Vehicle Parameterization and Tracking from Traffic Videos, pp. 105-110.

Vu, Anh	Univ. of California-Riverside	161-167.	
Boriboonsomsin, Kanok	Univ. of California-Riverside	Nilsson, Jonas	Volvo Car Corp.
Barth, Matthew	Univ. of California-Riverside	Ali, Mohammad	Volvo Cars
12:20-12:40	MA4.4	12:00-12:20	MA6.3
<i>Learning Moving Cast Shadows for Robust Foreground Detection in Highway Scenarios</i> , pp. 111-118. Attachment		<i>Lateral Stability Control of a Long Heavy Vehicle Combination by Active Steering of the Towed Units</i> , pp. 168-173.	
Caseiro, Rui	ISR-Inst. of Systems and Robotics - Univ. of Coimbra	Kharrazi, Sogol	Chalmers Univ. of Tech.
Batista, Katherine	Univ. of Coimbra	Fredriksson, Jonas	Chalmers Univ. of Tech.
Batista, Jorge	Inst. of Systems and Robotics	Lidberg, Mathias	Chalmers Univ. of Tech.
12:40-13:00	MA4.5	12:20-12:40	MA6.4
<i>Analysis and Assessment of Far Infrared Sensor Performance Parameters and Their Impact on Pedestrian Detection</i> , pp. 119-124.		<i>Predictive Driver Interpreter by Using Inverse Model for Heavy Vehicles</i> , pp. 174-179.	
Franz, Stefan	Daimler AG	Akhmetov, Yerlan	INSA-Lyon, Renault Trucks - Volvo 3P
Schweiger, Roland	Daimler AG	Maiffredy, Lionel	INSA-Lyon
Löhlein, Otto	Daimler AG	Remond, Didier	INSA de LYON
Kroschel, Kristian	Fraunhofer IOSB	Laine, Leo	VOLVO 3P
		Harth, Virginie	Renault Trucks - Volvo 3P
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Public Transport Operation and Personalized Public Transit 1 (Regular Session)		Bertolazzi, Enrico	Univ. of Trento
11:20-11:40	MA5.1	Biral, Francesco	Univ. of Trento
<i>Optimal Design of Bus Stops That Are Shared by Multiple Lines of Buses</i> , pp. 125-130.		Da Lio, Mauro	Univ. of Trento
Lu, Lu	Tsinghua Univ.	Galvani, Marco	Univ. of Trento
Su, Yuelong	Tsinghua Univ.		
Yao, Danya	Tsinghua Univ.	MA7	Nautilus III
Li, Li	Tsinghua Univ.	Cooperative Vehicles - Operational Results (Special Session)	
Li, Zhiheng	Tsinghua Univ.	Organizer: Ibanez Guzman, Javier	Renault S.A.S.
11:40-12:00	MA5.2	11:20-11:40	MA7.1
<i>Validation of Both Number and Coverage of Bus Schedules Using AVL Data</i> , pp. 131-136.		<i>Realization of NISSAN Cooperative ITS Systems --For Traffic Safety and Traffic Congestion (I)*</i> .	
Matias, Luis	LIAAD-INESC Porto L.A., Departamento de Engenharia Informática,	Fukushima, Masao	Nissan Motor Co.,Ltd
Gama, João	LIAAD-INESC Porto L.A., Faculdade de Ec. Univ. do P	11:40-12:00	MA7.2
Mendes-Moreira, João	LIAAD-INESC Porto L.A., Departamento de Engenharia Informática,	<i>Testing Cooperative Systems with the MARS Simulator (I)</i> , pp. 186-191.	
Freire de Sousa, Jorge	Departamento de Engenharia Industrial e Gestão, Faculdade de Eng	Netten, Bart	TNO
		Wedemeijer, Harry	TNO
12:00-12:20	MA5.3	12:00-12:20	MA7.3
<i>Demand Modeling of Innovative Transport System PRT at the Rotterdam Port Area</i> , pp. 137-142.		<i>Vehicle to Vehicle Communications Applied to Road Intersection Safety, Field Results (I)</i> , pp. 192-197.	
Li, Hao	Delft Univ. of Tech.	Ibanez Guzman, Javier	Renault S.A.S.
Chen, Yu Sen	CYStone	Lefevre, Stephanie	INRIA
Li, Jie	Delft Univ. of Tech.	Mokaddem, Abdel Kader	Renault S.A.S.
van Zuylen, H.J.	Delft Univ. of Tech.	12:20-12:40	MA7.4
van Arem, Bart	Delft Univ. of Tech.	<i>The Experimental Setup of a Large Field Operational Test for Cooperative Driving Vehicles at the A270</i> , pp. 198-203.	
12:20-12:40	MA5.4	Van den Broek, Thijs	TNO
<i>Influence Factors on Urban Public Transport Distributing Rate of Beijing As a Case Study</i> , pp. 143-148.		Hendrikus Adrianus	
Yan, Wei	Beijing Jiaotong Univ.	Bart, Netten	TNO
Li, Xuemei	Beijing Jiaotong Univ.	Hoedemaeker, Marika	TNO
12:40-13:00	MA5.5	Ploeg, Jeroen	TNO Automotive
<i>Classifying Trip Characteristics for Describing Routine and Non-Routine Trip Patterns</i> , pp. 149-154.		12:40-13:00	MA7.5
Millonig, Alexandra	Austrian Inst. of Tech.	<i>Situation Refinement for In-Vehicle Platforms in Vehicular Networks (I)</i> , pp. 204-209.	
Maierbrugger, Gudrun	Austrian Inst. of Tech.	Lytrivis, Panagiotis	Inst. of Comm. & Comp. Syst.
Favry, Eva	Rosinak & Partner ZT GmbH	Thomaidis, Georgios	Inst. of Comm. and Comp. Syst.
		Karaseitanidis, Ioannis	Inst. of Communication & Computer Systems
		Amditis, Angelos	Inst. of Communications and Computer Systems
MA6	Nautilus II	MA8	Estrela do Mar
Advanced Vehicle Safety Systems 1 (Regular Session)		Active Traffic Management 1 (Special Session)	
11:20-11:40	MA6.1	Organizer: Antoniou, Constantinos	National Tech. Univ. of Athens
<i>Collision Warning with Full Auto Brake and Pedestrian Detection - a Practical Example of Automatic Emergency Braking</i> , pp. 155-160.		Organizer: Lopes, Jorge	Brisa, Auto-Estradas de Portugal
Coelingh, Erik	Volvo Car Corp.	Organizer: Rossetti, Rosaldo	LIACC - Univ. of Porto
Eidehall, Andreas	Volvo Car Corp.	11:40-12:00	MA8.2
Bengtsson, Mattias	Volvo Car Corp.	<i>Traffic Data for Local Emissions Monitoring at a Signalized Intersection (I)</i> , pp. 210-215.	
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<i>Sensitivity Analysis and Tuning for Active Safety Systems</i> , pp.		van Lint, Hans	Delft Univ. of Tech.
		Klunder, Gerdien	TNO

Stelwagen, Uilke Ligterink, Norbert	TNO TNO	Intelligent Traffic Management for Railway and Fleets (Regular Session)	
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Lopes, Jorge Bento, João	Brisa Innovation and Tech. Brisa, Auto-Estradas de Portugal, SA	Chevrier, Remy	Univ. Lille Nord de France
Huang, Enyang Antoniou, Constantinos Ben-Akiva, Moshe	Massachusetts Inst. of Tech. National Tech. Univ. of Athens Massachusetts Inst. of Tech.	14:20-14:40 <i>A Backup System Based on a Decentralized Positioning System for Managing the Railway Traffic in Emergency Situations</i> , pp. 285-290.	MB2.2
12:00-12:20 <i>Ambient-Centred Intelligent Traffic Control and Management (I)</i> , pp. 224-229.	MA8.3	Carballedo, Roberto Salaberria, Itziar Perallos, Asier Odriozola, Iñigo	Univ. of Deusto Univ. of Deusto Univ. of Deusto Innovate and Transport Engineering Univ. of Deusto
Sanchez Passos, Lúcio	Faculty of Engineering, Univ. of Porto	Gutiérrez, Unai	
Rossetti, Rosaldo Oliveira, Eugénio	LIACC - Univ. of Porto Faculty of Engineering, Univ. of Porto	14:40-15:00 <i>An Intelligent On-Line Route Guide System in a Fleet</i> , pp. 291-294.	MB2.3
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Aron Maurice, Aron Maurice Cohen Simon, Cohen Simon Seidowsky Régine, Seidowsky Régine	UPE, INRETS UPE, INRETS UPE, INRETS	Shih, Ya-Wen Chang, Shih-Hung	Industrial Tech. Res. Inst. (ITRI), Taiwan Industrial Tech. Res. Inst. (ITRI), Taiwan
12:40-13:00 <i>Active Traffic Management Applications in Greece. the Case of Attica Tollway (I)</i> , pp. 237-242.	MA8.5	Hung, Yi-Hsuan	National Taiwan Normal Univ.
Antoniou, Constantinos Kopelias, Pantelis Papadimitriou, Fanis	National Tech. Univ. of Athens Attikes Diadromes S.A. Attikes Diadromes S.A.	15:00-15:20 <i>A Networking Platform for Real-Time Monitoring and Rule-Based Control of Transport Fleets and Transferred Goods</i> , pp. 295-300.	MB2.4
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14:00-14:20 <i>Modeling Ring-Barrier Traffic Controllers Using Colored Timed Stochastic Petri Nets</i> , pp. 243-248.	MB1.1	15:20-15:40 <i>Optimizing the Fleet Size of a Personal Rapid Transit System: A Case Study in the Port of Rotterdam</i> , pp. 301-305.	MB2.5
Mladenovic, Milos Abbas, Montasir	Virginia Tech. Virginia Tech.	Li, Jie Van Zuylen, H.J. Li, Hao Andreasson, Ingmar Chen, Yu Sen	Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech. Royal Inst. of Tech. CYStone
14:20-14:40 <i>Hierarchical Model-Based Predictive Control for Intelligent Vehicle Highway Systems: Regional Controllers</i> , pp. 249-254.	MB1.2	15:40-16:00 <i>An Experimental Study on the Fuel Reduction Potential of Heavy Duty Vehicle Platooning</i> , pp. 306-311.	MB2.6
Baskar, Lakshmi Dhevi De Schutter, Bart Hellendoorn, Hans	Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.	Alam, Assad Al Gattami, Ather Johansson, Karl Henrik	KTH KTH KTH
14:40-15:00 <i>Urban Traffic Control System Using Self-Organization</i> , pp. 255-260.	MB1.3	MB3 Data Mining, Data Fusion, and Statistical Modeling 1 (Regular Session)	Cipreia I
Slager, Gianfilippo Milano, Michela	Univ. di Bologna Univ. di Bologna	14:00-14:20 <i>Human Mobility Prediction Based on Individual and Collective Geographical Preferences</i> , pp. 312-317.	MB3.1
15:00-15:20 <i>Controller for Urban Intersections Based on Hybrid Automaton</i> , pp. 261-266.	MB1.4	Calabrese, Francesco Di Lorenzo, Giusy Ratti, Carlo	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
HosseinNia, S. Hassan Tejado, Ines Vinagre, Blas M Milanés, Vicente	Univ. of Extremadura, Spain Univ. of Extremadura Univ. of Extremadura, Spain Centro de Automática y Robótica (CSIC-UPM)	14:20-14:40 <i>Transportation Mode Inference from Anonymized and Aggregated Mobile Phone Call Detail Records</i> , pp. 318-323.	MB3.2
Gonzalez, Carlos	Inst. de Automatica Industrial (Consejo Superior de Investigaciones Científicas)	Wang, Huayong Calabrese, Francesco Di Lorenzo, Giusy Ratti, Carlo	Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Massachusetts Inst. of Tech.
15:20-15:40 <i>The Effects of the Control and Prediction Horizons on the Urban Traffic Regulation</i> , pp. 267-272.	MB1.5	14:40-15:00 <i>Decision Fusion and Reasoning for Traffic Sign Recognition</i> , pp. 324-329.	MB3.3
Kachroudi, Sofiene Mammar, Said	Ec. Centrale Paris Univ. EVRY	Meuter, Mirko Nunn, Christian Hold, Stephanie Goermer, Steffen M. Müller-Schneiders, Stefan Kummert, Anton	Delphi Electronics & Safety Univ. of Wuppertal Univ. of Wuppertal Univ. of Wuppertal Delphi Electronics & Safety Univ. of Wuppertal
15:40-16:00 <i>A Simple Adaptive Signal Control Algorithm for Isolated Intersections Using Time-Space Diagrams</i> , pp. 273-278.	MB1.6		
Lertworawanich, Ponlathep	Department of Highways, Sri-Ayudhaya Road, Bangkok		
Taesiri, Yongyuth	Department of Highways		
MB2	Buzio II		

15:00-15:20	MB3.4	<i>Vehicle Activity Segmentation from Position Data</i> , pp. 330-336.	Agamennoni, Gabriel The Univ. of Sydney Nieto, Juan Ignacio The Univ. of Sydney Nebot, Eduardo ACFR Univ. of Sydney	<i>Integration of Renewable Energy Generation with EV Charging Strategies to Optimize Grid Load Balancing</i> , pp. 392-396.	Freire, Rui Univ. of Coimbra Delgado, Joaquim Pol. School of Viseu Anibal, Traça de Almeida Univ. of Coimbra Santos, João Univ. of Coimbra		
15:20-15:40	MB3.5	<i>Critical Routes Identification Method Using Wavelet Filtering</i> , pp. 337-341.	Adam, Zain Virginia Tech. Abbas, Montasir Virginia Tech. Li, Yan Southeast Univ.	14:40-15:00	MB5.3	<i>Electric Propulsion Technology Based in Predictive Direct Torque Control and Asymmetrical Dual Three-Phase Drives</i> , pp. 397-402.	Prieto, Joel Univ. of Sevilla Riveros, José Univ. of Sevilla Bogado, Blas Univ. of Sevilla Barrero, Federico Univ. of Sevilla Toral-Marín, Sergio Univ. of Sevilla Cortés, Patricio Univ. Técnica Federico Santa María
15:40-16:00	MB3.6	<i>Privacy Implications of the Traffic Probe Message Service</i> , pp. 342-347.	Blum, Jeremy Pennsylvania State Univ. Okusun, Peter O. Pennsylvania State Univ.	15:00-15:20	MB5.4	<i>Off-Grid Portable EV Charging Network Management with Dynamic Energy Pricing</i> , pp. 403-408.	Sahinoglu, Zafer Mitsubishi Electric Res. Lab. Tao, Zhifeng Mitsubishi Electric Res. Lab. Teo, Koon Hoo Mitsubishi Electric Res. Lab.
MB4		Cipreia II	Driver Assistance Systems 1 (Regular Session)				
14:00-14:20	MB4.1	<i>Multi-Objective Driving Assistance System for Intersection Support</i> , pp. 348-353.	Wang, Jianqiang Tsinghua Univ. Zhang, Dezhao Tsinghua Univ. Liu, Jiayi Tsinghua Univ. Lu, Meng Tsinghua Univ. Li, Keqiang Tsinghua Univ.	15:20-15:40	MB5.5	<i>lv2g Charging Platform</i> , pp. 409-414.	Monteiro, Vitor Univ. of Minho Ferreira, João ISEL Pinto, Gabriel Univ. of Minho Pedrosa, Delfim Univ. of Minho Afonso, João Univ. of Minho
14:20-14:40	MB4.2	<i>Driver Torque and Road Reaction Force Estimation of an Electric Power Assisted Steering Using Sliding Mode Observer with Unknown Inputs</i> , pp. 354-359.	Marouf, Alaa LAMIH, UVHC Djemai, Mohamed UVHC Sentouh, Chouki LAMIH/CNRS Univ. of Valenciennes	15:40-16:00	MB5.6	<i>Driving and Braking Torque Control Methods for Securing Safe Running of Front-And-Rear-Wheel-Independent-Drive-Type Electric Vehicles (FRID EVs)</i> , pp. 415-421.	Mutoh, Nobuyoshi Tokyo Metropolitan Univ.
			Pudlo, Philippe LAMIH, UVHC	MB6		Nautilus II	Cooperative Intersection Safety – Intersection Safety Forum (Special Session)
14:40-15:00	MB4.3	<i>Situation Aspect Modelling and Classification Using the Scenario Based Random Forest Algorithm for Convoy Merging Situations</i> , pp. 360-366.	Reichel, Michael Tech. Univ. Braunschweig Botsch, Michael AUDI AG Rauschecker, Robert Carneq GmbH Siedersberger, Karl-Heinz AUDI AG Maurer, Markus TU Braunschweig	Organizer: Roessler, Bernd SICK AG Organizer: Fuerstenberg, Kay Ch. SICK AG Organizer: Parent, Michel INRIA Organizer: Obojski, Volkswagen AG Marian-Andrzej			
15:00-15:20	MB4.4	<i>Hand-Eye Autocalibration of Camera Positions on Vehicles</i> , pp. 367-372.	Ruland, Thomas Czech Tech. Univ. Prague Loose, Heidi Daimler AG Pajdla, Tomas Czech Tech. Univ. Prague Krüger, Lars Daimler AG	14:00-14:20	MB6.1	<i>First European STREP on Cooperative Intersection Safety, INTERSAFE-2 (I)</i> , pp. 422-427.	Roessler, Bernd SICK AG Fuerstenberg, Kay Ch. SICK AG
15:20-15:40	MB4.5	<i>Communicating Driver Intents: A Layered Architecture for Cooperative Active Safety Applications</i> , pp. 373-378.	Doshi, Anup Univ. of California, San Diego Trivedi, Mohan M. Univ. of California at San Diego	14:20-14:40	MB6.2	<i>RoadGraph - Graph Based Environmental Modelling and Function Independent Situation Analysis for Driver Assistance Systems (I)</i> , pp. 428-432.	Knaup, Jörn Volkswagen AG Homeier, Kai TU Braunschweig
15:40-16:00	MB4.6	<i>Improving Vehicle Safety Using Context Based Detection of Risk</i> , pp. 379-385.	Worrall, Stewart Univ. of Sydney Orchansky, David Univ. of Sydney Nebot, Eduardo ACFR Univ. of Sydney Masson, Favio Univ. Nacional del Sur	14:40-15:00	MB6.3	<i>Detection and Classification of Painted Road Objects for Intersection Assistance Applications (I)</i> , pp. 433-438.	Danescu, Radu Gabriel Tech. Univ. of Cluj-Napoca Nedeveschi, Sergiu Tech. Univ. of Cluj-Napoca
MB5		Nautilus I	Electric Vehicle Technology (Regular Session)				
14:00-14:20	MB5.1	<i>Grid Interactive Charging Control for Plug-In Electric Vehicles</i> , pp. 386-391.	Rei, Ricardo Jorge INESC Porto Soares, Filipe Joel INESC Porto / FEUP Almeida, Pedro INESC Porto / FEUP Pecas Lopes, Joao INESC Porto / FEUP	15:00-15:20	MB6.4	<i>Real-Time Obstacle Detection in Complex Scenarios Using Dense Stereo Vision and Optical Flow (I)</i> , pp. 439-444.	Pantilie, Cosmin Tech. Univ. of Cluj-Napoca Nedeveschi, Sergiu Tech. Univ. of Cluj-Napoca
14:20-14:40	MB5.2	<i>Grid Interactive Charging Control for Plug-In Electric Vehicles</i> , pp. 386-391.	Rei, Ricardo Jorge INESC Porto Soares, Filipe Joel INESC Porto / FEUP Almeida, Pedro INESC Porto / FEUP Pecas Lopes, Joao INESC Porto / FEUP	15:20-15:40	MB6.5	<i>Analysis of Reservation Algorithms for Cooperative Planning at Intersections (I)</i> , pp. 445-449.	de La Fortelle, Arnaud Mines ParisTech
				15:40-16:00	MB6.6	<i>Open Forum on Cooperative Intersection Safety (I)*.</i>	Roessler, Bernd SICK AG Fuerstenberg, Kay Ch. SICK AG Parent, Michel INRIA Obojski, Marian-Andrzej Volkswagen AG

MB7 Nautilus III
Traffic and Mobility Management for Rare Events and Emergencies (Special Session)

Organizer: Hoogendoorn, Serge	Delft Univ. of Tech.
Organizer: Pel, Adam	Delft Univ. of Tech.
14:00-14:20	MB7.1
<i>Longitudinal Driving Behavior under Adverse Weather Conditions: Adaptation Effects, Model Performance and Freeway Capacity in Case of Fog (I)</i> , pp. 450-455.	
Hoogendoorn, Raymond G.	TU Delft Civil Engineering and Geosciences
Tamminga, Guus	TU Delft Civil Engineering and Geosciences
Hoogendoorn, Serge	Delft Univ. of Tech.
Daamen, Winnie	TU Delft Civil Engineering and Geosciences
14:20-14:40	MB7.2
<i>Sensitivity Analysis on Heterogeneity of Driving Behavior for Evacuation Studies and Its Impacts on Traffic Safety (I)</i> , pp. 456-461.	
Tu, Huizhao	Grontmij Nederland BV
Tamminga, Guus	TU Delft Civil Engineering and Geosciences
Pel, Adam	Delft Univ. of Tech.
Drolenga, Hans	Grontmij Nederland BV
14:40-15:00	MB7.3
<i>Optimizing Evacuation Instructions While Anticipating Traveler Compliance Behavior (I)</i> , pp. 462-467.	
Pel, Adam	Delft Univ. of Tech.
Huibregtse, Olga L.	Delft Univ. of Tech.
Hoogendoorn, Serge	Delft Univ. of Tech.
Bliemer, Michiel	Delft Univ. of Tech.
15:00-15:20	MB7.4
<i>Random Forest Models for Identifying Motorway Rear-End Crash Risks Using Disaggregate Data</i> , pp. 468-473.	
Pham, Minh-Hai	Ec. Pol. Fédérale de Lausanne
Bhaskar, Ashish	Ec. Pol. Fédérale de Lausanne
Chung, Edward	Queensland Univ. of Tech.
Dumont, André-Gilles	Ec. Pol. Fédérale de Lausanne
15:20-15:40	MB7.5
<i>Severity Detection of Traffic Accidents at Intersections Based on Vehicle Motion Analysis and Multiphase Linear Regression</i> , pp. 474-479.	
Akoz, Omer	Yildiz Tech. Univ.
Karsligil, M.Elif	Yildiz Tech. Univ.
15:40-16:00	MB7.6
<i>Modeling of Evacuations to No-Notice Event by Public Transit System</i> , pp. 480-484.	
Hailin, Zhang	Southeast Univ.
Liu, Hao	Res. Insitute of Highway, Ministry of Transport
Zhang, Ke	ChineseNationalIntelligentTransportSystemCenterofTechnologyandEn

MB8 Estrela do Mar
Variable Speed Limits for Freeway Management and Control (Special Session)

Organizer: Papamichail, Ioannis	Tech. Univ. of Crete
Organizer: Hegyi, Andreas	Delft Univ. of Tech.
14:00-14:20	MB8.1
<i>Lane Distribution of Traffic Near Merging Zones - Influence of Variable Speed Limits (I)</i> , pp. 485-490.	
Knoop, Victor	Delft Univ. of Tech.
Duret, Aurelien	LICIT (INRETS-ENTPE-Univ. of Lyon)
Buisson, Christine van Arem, Bart	INRETS ENTPE Delft Univ. of Tech.
14:20-14:40	MB8.2
<i>A New Approach for Combined Freeway Variable Speed Limits and Coordinated Ramp Metering (I)</i> , pp. 491-498.	
Lu, Xiao-Yun	Univ. of California, Berkeley
Varaiya, Pravin	Department of EECS, U. C.

Horowitz, Roberto	Berkeley Univ. of California at Berkeley
Su, Dongyan	Univ. of California, Berkeley
Shladover, Steven E.	Univ. of California, Berkeley
14:40-15:00	MB8.3
<i>Assessment of Variable Speed Limits from the Drivers' Perspective (I)</i> , pp. 499-506.	
Corthout, Ruben	K.U.Leuven
Tampere, Chris	Katholieke Univ. Leuven
Deknudt, Patrick	Vlaams Verkeerscentrum
15:00-15:20	MB8.4
<i>Variable Speed Limits for Area-Wide Reduction of Emissions (I)</i> , pp. 507-512.	
Zegeye, Solomon K.	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Hellendoorn, Hans	Delft Univ. of Tech.
Breunese, Ewald	Shell Nederland B.V.
15:20-15:40	MB8.5
<i>Local Feedback-Based Mainstream Traffic Flow Control on Freeways Using Variable Speed Limits (I)</i> , pp. 513-518.	
Carlson, Rodrigo Castelan	Tech. Univ. of Crete
Papamichail, Ioannis	Tech. Univ. of Crete
Papageorgiou, Markos	Tech. Univ. of Crete
15:40-16:00	MB8.6
<i>Dynamic Speed Limit Control to Resolve Shock Waves on Freeways - Field Test Results of the SPECIALIST Algorithm (I)</i> , pp. 519-524.	
Hegyi, Andreas	Delft Univ. of Tech.
Hoogendoorn, Serge	Delft Univ. of Tech.

MC1 Buzio I
Reinforcement Learning for Traffic Management and Control (Regular Session)

16:20-16:40	MC1.1
<i>Arterial Traffic Control Using Reinforcement Learning Agents and Information from Adjacent Intersections in the State and Reward Structure</i> , pp. 525-530.	
Medina, Juan C	Univ. of Illinois at Urbana - Champaign
Hajbabaie, Ali	Univ. of Illinois at Urbana-Champaign
Benekohal, Rahim F.	Univ. of Illinois at Urbana-Champaign
16:40-17:00	MC1.2
<i>Soilse: A Decentralized Approach to Optimization of Fluctuating Urban Traffic Using Reinforcement Learning</i> , pp. 531-538.	
Salkham, As'ad	Trinity Coll. Dublin
Cahill, Vinnie	Trinity Coll. Dublin
17:00-17:20	MC1.3
<i>Fairness Analysis with Cost Impact for Brasilia's Flight Information Region Using Reinforcement Learning Approach</i> , pp. 539-544.	
Arruda Junior, Antonio Carlos de	Bank of Brazil
Ferreira Leite, Alessandro	Univ. of Brasilia
Almeida, Cicero Roberto	Univ. of Brasilia
Ferreira de	
Crespo, Antonio	Univ. DE BRASILIA (Univ. of Brasilia)
Li, Weigang	Univ. of Brasilia
17:20-17:40	MC1.4
<i>Neuro-Fuzzy Actor Critic Reinforcement Learning for Determination of Optimal Timing Plans</i> , pp. 545-550.	
Chong, Linsen	Virginia Tech.
Abbas, Montasir	Virginia Tech.

MC2 Buzio II
Traffic Modeling and Model Calibration (Regular Session)

16:20-16:40	MC2.1
<i>Modeling and Clustering Network-Level Urban Traffic Status Based on Traffic Flow Assignment Ratios</i> , pp. 551-556.	
Qu, Li	Tsinghua Univ.
Hu, Jianming	Tsinghua Univ.
Zhang, Yi	Tsinghua Univ.
16:40-17:00	MC2.2
<i>A Spatial Analysis Approach for Describing Spatial Pattern of</i>	

Urban Traffic State, pp. 557-562. Zou, Haixiang Yue, Yang Li, Qingquan Shi, Yonghui	WuhanUniversity The Univ. of Hong Kong Wuhan Univ. Wuhan traffic management bureau	16:40-17:00	MC4.2
		<i>Estimation of Lane Data-Based Features by Odometric Vehicle Data for Driver State Monitoring</i> , pp. 611-616. Friedrichs, Fabian Miksch, Michael Yang, Bin	Univ. of Stuttgart Univ. of Stuttgart Univ. of Stuttgart
17:00-17:20	MC2.3	17:00-17:20	MC4.3
<i>A Calibration and Validation Procedure for Microscopic Simulation Model</i> , pp. 563-568. Li, Zhe	National ITSResearchCenter, Res. o	<i>Monocular-Vision-Based Parking Assistance for Constrained Environment</i> , pp. 617-622. Park, Soon Young Song, Young Sub Park, Jongsik Kim, Hang Joon	Kyungpook National Univ. Kyungpook National Univ. Kyungpook National Univ. Kyungpook National Univ.
Liu, Hao	Res. Insitute of Highway, Ministry of Transport	17:20-17:40	MC4.4
Li, Jing	National ITSResearchCenter, Res. o	<i>Characterization of Hurried Driving Based on Collision Risk and Attentional Allocation</i> , pp. 623-628. Wada, Takahiro Yoshida, Makoto Doi, Shunichi Tsutsumi, Shigeyoshi	Kagawa Univ. Honda R&D Kagawa Univ. Kagawa Univ.
17:20-17:40	MC2.4	17:40-18:00	MC4.5
<i>Modeling Freeway Travel Speed across Lanes: A Vector Autoregressive Approach</i> , pp. 569-574. Vlahogianni, Eleni	School ofCivilEngineeringNationalTechni calUniversityofAthens	<i>ELA - an Exit Lane Assistant for Adaptive Cruise Control and Navigation Systems</i> , pp. 629-634. Hold, Stephanie Goermer, Steffen M. Meuter, Mirko Müller-Schneiders, Stefan Kummert, Anton	Univ. of Wuppertal Univ. of Wuppertal Delphi Electronics & Safety Delphi Corp. Univ. of Wuppertal
Karlaftis, Matthew	School of Civil EngineeringNational Tech. Univ.		
Kopelias, Pantelis	Attikes Diadromes S.A.		
MC3		Cipreia I	
Optimization and Control: Theory and Modeling 1 (Regular Session)			
16:20-16:40	MC3.1	MC5	Nautilus I
<i>On Optimizing a Demand Responsive Transport with an Evolutionary Multi-Objective Approach</i> , pp. 575-580. Chevrier, Remy Liefoghe, Arnaud Jourdan, Laetitia Dhaenens, Clarisse	Univ. Lille Nord de France Univ. Lille Nord de France Univ. Lille Nord de France Univ. Lille Nord de France	Automated Vehicle Operation (Regular Session)	
16:40-17:00	MC3.2	16:20-16:40	MC5.1
<i>Multi-Year Network Level Road Maintenance Programming by Genetic Algorithms and Variable Neighbourhood Search</i> , pp. 581-586. Sirvio, Konsta Hollmén, Jaakko	Sirway Ltd. Department of Information and Computer Science, Aalto Univ.	<i>Development of the Control System for the VisLab Intercontinental Autonomous Challenge</i> , pp. 635-640. Broggi, Alberto Medici, Paolo Cardarelli, Elena Cerri, Pietro Giacomazzo, Alessandro	Univ. of Parma Univ. di Parma Univ. of Parma Univ. of Parma Univ. degli Studi di Milano-Bicocca Topcon Positioning System
17:00-17:20	MC3.3	16:40-17:00	MC5.2
<i>Vehicle Steering Control Based on Robust Control for High Lateral Accelerations: Experimental Evaluation</i> , pp. 587-592. Menhour, Lghani	HEUDIASYC UMR UTC/CNRS 6599	<i>Improving Localization Accuracy Based on Lightweight Visual Odometry</i> , pp. 641-646. Pojar, Dan Jeong, Pangu Nedevschi, Sergiu	Tech. Univ. of Cluj Napoca Tech. Univ. of Cluj Napoca Tech. Univ. of Cluj Napoca
Lechner, Daniel Charara, Ali	INRETS-MA HEUDIASYC UMR UTC/CNRS 6599	17:00-17:20	MC5.3
17:20-17:40	MC3.4	<i>Comprehensive Treated Sections in a Trajectory Planner for Realizing Autonomous Driving in Braunschweig's Urban Traffic</i> , pp. 647-652. Wille, Joern Marten Saust, Falko Maurer, Markus	Tech. Univ. Braunschweig Tech. Univ. Braunschweig Tech. Univ. Braunschweig
<i>Study on Spacing Optimization for Traffic Flow Detector</i> , pp. 593-598. Li, Haijian Jia, Limin Dong, Honghui Qin, Yong Xu, Dongwei Sun, Xiaoliang	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiao Tong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ.	17:20-17:40	MC5.4
17:40-18:00	MC3.5	<i>Real-Time Dynamic Trajectory Planning for Highly Automated Driving in Highways</i> , pp. 653-658. Resende, Paulo Nashashibi, Fawzi	INRIA Paris - Rocquencourt Mines Paris - ParisTech
<i>ANFIS Based Modeling and Prediction Car Following Behavior in Real Traffic Flow Based on Instantaneous Reaction Delay</i> , pp. 599-604. Khodayari, Alireza Ghaffari, Ali Kazemi, Reza Manavizadeh, Negin	K. N. Toosi Univ. of Tech. K.N.Toosi Univ. K.N.Toosi Univ. K. N. Toosi Univ. of Tech.	17:40-18:00	MC5.5
		<i>Coordinated Throttle and Brake Fuzzy Controller Design for Vehicle Following</i> , pp. 659-664. Zhao, Jin El Kamel, Abdelkader	Ec. Centrale De Lille Ec. Centrale De Lille
MC4		Nautilus II	
Driver Assistance Systems 2 (Regular Session)		Coordinated/Integrated Road Traffic Control (Special Session)	
16:20-16:40	MC4.1	Organizer: Hegyi, Andreas Organizer: Hoogendoorn, Serge	Delft Univ. of Tech. Delft Univ. of Tech.
<i>Effect of Pattern Recognition Features on Detection for Driver's Cognitive Distraction</i> , pp. 605-610. Miyaji, Masahiro Kawanaka, Haruki Oguri, Koji	Aichi, Prefectural Univ. Aichi Prefectural Univ. Aichi Prefectural Univ.	16:20-16:40	MC6.1
		<i>An Agent-Based Learning towards Decentralized and Coordinated Traffic Signal Control (I)</i> , pp. 665-670. El-Tantawy, Samah Abdulhai, Baher	Univ. of Toronto Univ. of Toronto

16:20-16:40	MC6.1	Koutsopoulos, Haris N.	Royal Inst. of Tech.
<i>Integration of the Urban and Freeway Networks Control by Using a Scenario Coordination Module (I)</i> , pp. 671-676.			
Wang, Yubin	TU Delft, Trinité Automation		
Vrancken, Jos	Delft Univ. of Tech.		
Davarynejad, Mohsen	TU Delft		
17:00-17:20	MC6.3		
<i>Integrated Urban Traffic Control for the Reduction of Travel Delays and Emissions (I)</i> , pp. 677-682.			
Lin, Shu	Delft Univ. of Tech.		
De Schutter, Bart	Delft Univ. of Tech.		
Zegeye, Solomon K.	Delft Univ. of Tech.		
Hellendoorn, Hans	Delft Univ. of Tech.		
Xi, Yugeng	Shanghai Jiao Tong Univ.		
17:40-18:00	MC6.5		
<i>Ant Colony Optimization for Traffic Dispersion Routing (I)</i> , pp. 683-688.			
Alves, Diogo	N/A		
Van Ast, Jelmer	Delft Univ. of Tech.		
Cong, Zhe	Delft Univ. of Tech.		
De Schutter, Bart	Delft Univ. of Tech.		
Babuska, Robert	TU Delft		
MC7		Nautilus III	
Traffic Data Challenges (Special Session)			
Organizer: Kuwahara, Masao	Univ. of Tokyo		
Organizer: Miska, Marc Philipp	Univ. of Tokyo		
16:20-16:40	MC7.1		
<i>Sustainable Management of Data Driven Projects (I)</i> , pp. 689-693.			
Miska, Marc Philipp	Univ. of Tokyo		
Kuwahara, Masao	Univ. of Tokyo		
16:40-17:00	MC7.2		
<i>A Density-Based Dynamic OD Estimation Method That Reproduces Within-Day Congestion Dynamics (I)</i> , pp. 694-699.			
Frederix, Rodric	Katholieke Univ. Leuven		
Viti, Francesco	Katholieke Univ. Leuven		
Tampere, Chris	Katholieke Univ. Leuven		
17:00-17:20	MC7.3		
<i>Traffic Information Provision for Singular Conditions Based on Macroscopic Fundamental Diagram from Floating Car Data (I)</i> , pp. 700-705.			
Horiguchi, Ryota	i-Transport Lab. Co., Ltd.		
Iijima, Morihisa	i-Transport Lab. Co., Ltd.		
Hanabusa, Hisatomo	i-Transport Lab. Co., Ltd.		
17:20-17:40	MC7.4		
<i>Correcting Routing Information through GPS Data Processing</i> , pp. 706-711.			
Freitas, Tiago	Faculty of Engineering, Univ. of Porto		
Coelho, António	Faculty of Engineering, Univ. of Porto		
Rossetti, Rosaldo	LIACC - Univ. of Porto		
17:40-18:00	MC7.5		
<i>Analysis on Traffic Flow Data and Extraction of Nonlinear Characteristic Quantities</i> , pp. 712-717.			
Wang, Yin	Tsinghua Univ.		
Hu, Jianming	Tsinghua Univ.		
Zhang, Zuo	Tsinghua Univ.		
Li, Di	Tsinghua Univ.		
MC8		Estrela do Mar	
Exploiting ITS for Urban Mobility (Special Session)			
Organizer: Antoniou, Constantinos	National Tech. Univ. of Athens		
Organizer: Tyrinopoulos, Yannis	Centre for Res. and Tech. Hellas		
16:20-16:40	MC8.1		
<i>Evaluation of Real-Time Holding Strategies for Improved Bus Service Reliability (I)</i> , pp. 718-723.			
Cats, Oded	KTH - Royal Inst. of Tech.		
Burghout, Wilco	Royal Inst. of Tech.		
Toledo, Tomer	Faculty of Civil and Environmental Engineering, Tech. - Israe		
16:40-17:00	MC8.2		
<i>A Decision Support Tool for the Sustainable Handling of Seasonal Variations of Transport Demand (I)</i> , pp. 724-729.			
Tyrinopoulos, Yannis	Centre for Res. and Tech. Hellas		
Mitsakis, Evangelos	Aristotle Univ. of Thessaloniki		
Kortsari, Annie	Centre for Res. and Tech. Hellas		
17:00-17:20	MC8.3		
<i>Requirements and Potential of GPS-Based Floating Car Data for Traffic Management: Stockholm Case Study (I)</i> , pp. 730-735.			
Rahmani, Mahmood	The Royal Inst. of Tech. KTH		
Koutsopoulos, Haris N.	The Royal Inst. of Tech. KTH		
Ranganathan, Anand	IBM TJ Watson Res. Center		
17:20-17:40	MC8.4		
<i>Stated Preference Applied to Market Research for Travel Information Systems: A Case Study for Athens Urban Area (I)</i> , pp. 736-740.			
Polydoropoulou, Amalia	Univ. of the Aegean		
Tsirimpa, Athena	Univ. of the Aegean		
TP1L		Room T1	
A New Extreme Challenge for Autonomous Vehicles (Plenary Session)			
09:00-09:45			TP1L.1
<i>A New Extreme Challenge for Autonomous Vehicles*</i> .			
Broggi, Alberto			Univ. of Parma
TP2L		Room T1	
Keynotes and Panel Discussion on ITS (Plenary Session)			
09:45-10:30			TP2L.1
<i>Keynotes and Panel Discussion on ITS*</i> .			
Bertini, Robert			RITA
Wang, Yibing			Monash Univ.
TA1		Buzio I	
Traffic Flow Models under the Microscope (Regular Session)			
11:00-11:20			TA1.1
<i>On Acceleration of Traffic Flow</i> , pp. 741-746.			
Luspay, Tamas			Computer and Automation Res. Inst. Hungarian Acad. of Delft Univ. of Tech.
Kulcsar, Balazs			Computer and Automation Res. Inst.
Varga, Istvan			Delft Univ. of Tech.
Zegeye, Solomon K.			Delft Univ. of Tech.
De Schutter, Bart			Delft Univ. of Tech.
Verhaegen, Michel			Delft Univ. of Tech.
11:20-11:40			TA1.2
<i>A Study of Step Calculations in Traffic Cellular Automaton Models</i> , pp. 747-752.			
Chen, Minjie			Tech. Univ. of Berlin, Germany
Baerwolff, Guenter			Tech. Univ. of Berlin, Germany
Schwandt, Hartmut			Tech. Univ. of Berlin, Germany
11:40-12:00			TA1.3
<i>Equilibrium Analysis and Comparison for General CTMs and LCTMs</i> , pp. 753-758.			
Chen, Xiquan			Tsinghua Univ.
Li, Li			Tsinghua Univ.
Shi, Qixin			Tsinghua Univ.
Cao, Jinxin			Tsinghua Univ.
12:00-12:20			TA1.4
<i>Effects of Cooperative Adaptive Cruise Control on Traffic Flow Stability</i> , pp. 759-764.			
Schakel, Wouter			Delft Univ. of Tech.
van Arem, Bart			Delft Univ. of Tech.
Bart, Netten			TNO
TA2		Buzio II	
Study of Human Factors in ITS (Regular Session)			
11:00-11:20			TA2.1
<i>Estimation of Driver's Mental Workload Using Visual Information and Heart Rate Variability</i> , pp. 765-769.			
Kawakita, Eiji			Aichi Prefectural Univ.
Itoh, Michimasa			Tokai Rika Co., Ltd.
Oguri, Koji			Aichi Prefectural Univ.
11:20-11:40			TA2.2

Detection of Driver's Visual Attention Using Online UFOV Method, pp. 770-776.

Danno, Mikio Toyota InfoTechnology Center
Miyaji, Masahiro Aichi, Prefectural Univ.
Kortelainen, Juha VTT Tech. Res. Centre of Finland
Kutilla, Matti VTT Tech. Res. Centre of Finland

11:40-12:00 TA2.3

Driving Style Estimation Via Inertial Measurements, pp. 777-782.

Manzoni, Vincenzo Pol. di Milano
Corti, Andrea Pol. di Milano
De Luca, Pietro Teleparking Srl
Savaresi, Sergio Pol. di Milano

12:00-12:20 TA2.4

Towards the Life-Cycle of VMS Configurations, pp. 783-788.

Stoegerer, Christoph SWARCO Futurit GmbH
Novak, Thomas SWARCO Futurit GmbH
Kastner, Wolfgang Vienna Univ. of Tech.

TA3 Cipeira I
Agent-Based Methods for Traffic Modeling and Analysis
(Regular Session)

11:00-11:20 TA3.1

A Developmental Framework towards Dynamic Incident Rerouting Using Vehicle-To-Vehicle Communication and Multi-Agent Systems, pp. 789-794.

Boskovich, Scott Univ. of California, Riverside
Barth, Matthew Univ. of California-Riverside
Boriboonsomsin, Kanok Univ. of California-Riverside

11:20-11:40 TA3.2

A Distributed Dijkstra's Algorithm for the Implementation of a Real Time Carpooling Service with an Optimized Aspect on Siblings, pp. 795-800.

Sghaier, Manel Ec. Centrale de Lille
Hammadi, Slim Ec. centrale de Lille
Zgaya, Hayfa Ec. Centrale de Lille (Ec.
Tahon, Christian Univ. de valenciennes

11:40-12:00 TA3.3

An Intelligent Geographical Information System for Vehicle Routing (IGIS-VR): A Modeling Framework, pp. 801-805.

S. Mostafa, Toka Nile Univ.
Talaat, Hoda Nile Univ.

12:00-12:20 TA3.4

Hybrid-State Driver/Vehicle Modelling, Estimation and Prediction, pp. 806-811.

Kurt, Arda The Ohio State Univ.
Yester, John Honda R&D Americas, Inc.
Mochizuki, Yutaka Honda R&D Americas, Inc
Ozguner, Umüt Ohio State Univ.

TA4 Cipeira II
Determining Roadway Capacity (Regular Session)

11:00-11:20 TA4.1

Estimation of Road Capacity and Free Flow Speed for Urban Roads under Adverse Weather Conditions, pp. 812-818.

Asamer, Johannes Austrian Inst. of Tech.
Reinthal, Martin Austrian Inst. of Tech.

11:20-11:40 TA4.2

Preliminary Estimate of Highway Capacity Benefit Attainable with IntelliDrive Technologies, pp. 819-824.

Ni, Daiheng Univ. of Massachusetts Amherst
Li, Jia Univ. of Massachusetts Amherst
Andrews, Steven Univ. of Massachusetts Amherst
Wang, Haizhong Univ. of Massachusetts Amherst

11:40-12:00 TA4.3

Empirical Investigation on Stochastic Dutch Freeway Capacity, pp. 825-830.

Tu, Huizhao Grontmij Nederland BV
van Rij, Martijn Grontmij Nederland BV
Henkens, Niels Grontmij Nederland BV
Heikoop, Henk Rijkswaterstaat DVS

12:00-12:20 TA4.4

Variable Analysis for Freeway Work Zone Capacity Prediction, pp. 831-836.

Zheng, Nan Delft Univ. of Tech.
Hegy, Andreas Delft Univ. of Tech.

Hoogendoorn, Serge P.
Van Zuylen, Henk
Peters, David

Delft Univ. of Tech.
Delft Univ. of Tech.
BAM Infraconsult B.V.

TA5 Nautilus I
Multi-Sensor Fusion (Regular Session)

11:00-11:20 TA5.1

Multimodal Highway Monitoring for Robust Incident Detection, pp.

837-842. Attachment
Pucher, Michael Telecommunications Res. Center
Vienna (FTW)

Schabus, Dietmar Telecommunications Res. Center
Vienna (FTW)

Schallauer, Peter Joanneum Res. Graz

Lypetsky, Yuriy JOANNEUM Res.

Graf, Franz Joanneum Res. Graz

Rainer, Harald Joanneum Res. Graz

Stadtschnitzer, Michael Joanneum Res. Graz

Sternig, Sabine TU Graz, Inst. of Computer
Graphics and Vision

Birchbauer, Josef Siemens AG, Österreich

Schneider, Wolfgang Siemens AG, Österreich

Schalko, Bernhard ASFINAG Mautservice GMBH

11:20-11:40 TA5.2

Motion-Based Online Calibration for Non-Overlapping Camera

Views, pp. 843-848.

Pagel, Frank Fraunhofer IOSB

Willersinn, Dieter Fraunhofer IOSB

11:40-12:00 TA5.3

Visual Confirmation of Mobile Objects Tracked by a Multi-Layer

Lidar, pp. 849-854. Attachment

Rodriguez Florez, Sergio Heudiasyc Lab. Univ. of Tech. of
Compiegne

Fremont, Vincent Univ. of Tech. of Compiegne

Bonnifant, Philippe Univ. of Tech. of Compiegne

Cherfaoui, Véronique Univ. of Tech. of Compiegne

12:00-12:20 TA5.4

Improvement of Multisensor Fusion in Speed Limit Determination

by Quantifying Navigation Reliability, pp. 855-860.

Puthon, Anne-Sophie Ec. des Mines de Paris

Nashashibi, Fawzi Mines Paris - ParisTech

Bradai, Benazouz Valeo Lighting Systems

TA6 Nautilus II

Vehicle Detection (Regular Session)

11:00-11:20 TA6.1

Tracking Oncoming and Turning Vehicles at Intersections, pp.

861-868.

Barth, Alexander Univ. of Bonn

Franke, Uwe Daimler AG

11:20-11:40 TA6.2

Incorporating Appearance and Edge Features for Vehicle

Detection in the Blind-Spot Area, pp. 869-874.

Lin, Bin-Feng National Taiwan Univ.

Chan, Yi-Ming National Taiwan Univ.

Chuang, Li-An National Taiwan Univ.

Fu, Li-Chen National Taiwan Univ.

Hsiao, Pei-Yung National Univ. of Kaohsiung

Huang, Shih-Shinh National Taiwan Univ.

11:40-12:00 TA6.3

Vehicle Detection under Varying Poses Using Conditional Random

Fields, pp. 875-880.

Zhang, Xuetao Xi'an Jiaotong Univ.

Zheng, Nanning Xi'an Jiaotong Univ.

12:00-12:20 TA6.4

Following Vehicle Detection Based on Shift of Feature Plane Using

Affine Transform, pp. 881-886.

Arai, Shintaro Aichi Univ. of Tech.

Inoue, Osamu Keio Univ.

Ozawa, Shinji Aichi Univ. of Tech.

TA7 Nautilus III

Computational Intelligence in ITS (Special Session)

Organizer: Prokhorov, Danil Toyota Res. Inst. NA

11:00-11:20 TA7.1

<i>Road Obstacle Classification: A Case Study of CI in ITS (I)*.</i>		Mantero, Claudio	Horarios do Funchal
Prokhorov, Danil	Toyota Res. Inst. NA	14:10-14:30	TB1.3
11:20-11:40	TA7.2	<i>Smart Infrastructure for Carbon Footprint Analysis of Electric Vehicles</i> , pp. 949-954.	
<i>Vision-Based Drowsiness Detector for a Realistic Driving Simulator (I)</i> , pp. 887-894.		Suresh, Visalakshmi	Newcastle Univ.
García Daza, Iván	Univ. of Alcalá	Hill, Graeme	NEWCASTLE Univ.
Bronte, Sebastian	Univ. de Alcalá	Blythe, Phil	Univ. of Newcastle
Bergasa, Luis M.	Univ. of Alcalá	Bell, Margaret	Newcastle Univ.
Hernandez Parra, Noelia	Univ. of Alcalá	14:30-14:50	TB1.4
Delgado, Beatriz	ESM	<i>Energy Efficient Traffic Management and Control - the Ecomove Approach and Expected Benefits</i> , pp. 955-961.	
Sevillano, Matías	ESM	Vreeswijk, Jaap	Peek Traffic bv
11:40-12:00	TA7.3	Mahmod, Mohamed Kamil	Univ. of Twente
<i>Vision-Based Distraction Analysis Tested on a Realistic Driving Simulator (I)</i> , pp. 895-902.		Morsi	
Hernandez Parra, Noelia	Univ. of Alcalá	van Arem, Bart	Delft Univ. of Tech.
Jiménez, Pedro	Univ. of Alcalá	14:50-15:10	TB1.5
Bergasa, Luis M.	Univ. of Alcalá	<i>Map Interface for Geo-Registering and Monitoring Distributed Events</i> , pp. 962-967.	
Delgado, Beatriz	ESM	Morris, Brendan	Univ. of California, San Diego
Sevillano, Matías	ESM	Trivedi, Mohan M.	Univ. of California at San Diego
12:00-12:20	TA7.4	15:10-15:30	TB1.6
<i>Multiple Target Tracking for Intelligent Headlights Control (I)</i> , pp. 903-910.		<i>Traffic Operations from Open to Dedicated E-Lane</i> , pp. 968-973.	
Rubio, Jose C.	Univ. Autónoma de Barcelona	Zheng, Pengjun	Univ. of Southampton
Serrat, Joan	Univ. Autónoma de Barcelona	Jeffery, David	Univ. of Southampton
López, Antonio M.	Univ. Autónoma de Barcelona	McDonald, Mike	Univ. of Southampton
Ponsa, Daniel	Centre de Visió per Computador		

TA8 Estrela do Mar
Advances in Traffic State Estimation and Prediction 1 (Special Session)

Organizer: van Lint, Hans	Delft Univ. of Tech.
11:00-11:20	TA8.1
<i>Distributed Evolutionary Estimation of Dynamic Traffic Origin/Destinations (I)</i> , pp. 911-916.	
Kattan, Lina	Univ. of Calgary
Abdulhai, Baher	Univ. of Toronto
11:20-11:40	TA8.2
<i>Fast Traffic State Estimation with the Localized Extended Kalman Filter (I)</i> , pp. 917-922.	
van Hinsbergen, Chris Philip	Delft Univ. of Tech.
IJsbrand	
Schreiter, Thomas	Delft Univ. of Tech.
Zuurbier, Frank	Delft Univ. of Tech.
van Lint, Hans	Delft Univ. of Tech.
Van Zuylen, H.J.	Delft Univ. of Tech.
11:40-12:00	TA8.3
<i>Non-Linear Compensation of Vehicle Signatures Captured from Electromagnetic Sensors with Application to Vehicle Re-Identification (I)</i> , pp. 923-928.	
Ernst, Joseph M.	Purdue Univ.
Krogmeier, James V.	Purdue Univ.
Bullock, Darcy	Purdue Univ.
12:00-12:20	TA8.4
<i>Estimating Arterial Traffic Conditions Using Sparse Probe Data (I)</i> , pp. 929-936.	
Herring, Ryan	Univ. of California, Berkeley
Hofleitner, Aude	Univ. of California, Berkeley
Abbeel, Pieter	Univ. of California, Berkeley
Bayen, Alexandre	Univ. of California, Berkeley

TB1 Buzio I
Intelligent, Energy-Efficient, and Green Infrastructure (Regular Session)

13:30-13:50	TB1.1
<i>Toward Effective Strategies for Energy Efficient Network Management</i> , pp. 937-942.	
Vreeswijk, Jaap	Peek Traffic bv
van Berkum, Eric	Univ. of Twente
van Arem, Bart	Delft Univ. of Tech.
Van Der Vliet, Herman	Peek Traffic bv
13:50-14:10	TB1.2
<i>A Wireless Infrastructure for Delivering Contextual Services and Studying Transport Behavior</i> , pp. 943-948.	
Camacho, Tiago	Madeira Interactive Tech. Inst.
Kostakos, Vassilis	Madeira Interactive Tech. Inst.

TB2 Buzio II
Travel Information and Guidance (Regular Session)

13:30-13:50	TB2.1
<i>A Reliability-Based Dynamic Re-Routing Algorithm for In-Vehicle Navigation</i> , pp. 974-979.	
Kaparias, Ioannis	Imperial Coll. London
Bell, Michael Geoffrey	Imperial Coll. London
Harrison	
13:50-14:10	TB2.2
<i>The Predecessor and the Accounting Algorithm Speed up Shortest Path Calculations in Traffic Routing Applications</i> , pp. 980-985.	
Demeyer, Sofie	Ghent Univ.
Goedgebeur, Jan	Ghent Univ.
Audenaert, Pieter	Ghent Univ.
Pickavet, Mario	Ghent Univ.
14:10-14:30	TB2.3
<i>Real-Time, Scalable Route Planning Using a Stream-Processing Infrastructure</i> , pp. 986-991.	
Guc, Baris	ETH Zurich
Ranganathan, Anand	IBM TJ Watson Res. Center
14:30-14:50	TB2.4
<i>Intelligent Transportation Systems Traveling Salesman Problem (ITS-TSP) - a Specialized TSP with Dynamic Edge Weights and Intermediate Cities</i> , pp. 992-997.	
Miller, Jeffrey	Univ. of Alaska, Anchorage
Kim, Sun-il	Univ. of Alaska, Anchorage
Menard, Timothy	Univ. of Alaska, Anchorage
14:50-15:10	TB2.5
<i>Identifying Travelers' Information Needs and Services for an Integrated International Real Time Journey Planning System</i> , pp. 998-1004.	
Zografos, Konstantinos	Department of Management Science and Tech. Athens Univ.
Androutsopoulos, Konstantinos	Department of Management Science and Tech. Athens Univ.
Nelson, John	School of Geosciences, Univ. of Aberdeen
15:10-15:30	TB2.6
<i>An Experimental Exploration of Route Choice: Identifying Drivers Choices and Choice Patterns, and Capturing Network Evolution</i> , pp. 1005-1012.	
Tawfik, Aly M.	Virginia Tech.
Rakha, Hesham A.	Virginia Tech.
Miller, Shadeeqa	Univ. of Wisconsin-Madison

TB3 Cipeiria I
Simulation and Modeling 1 (Regular Session)

13:30-13:50	TB3.1
<i>Dynamic Modeling and Adaptive Motion Control of a Two-Wheeled</i>	

<i>Self-Balancing Vehicle for Personal Transport</i> , pp. 1013-1018.	Petrov, Plamen Parent, Michel	Tech. Univ. of Sofia INRIA	Strang, Thomas 14:50-15:10	German Aerospace Center (DLR)	TB4.5
13:50-14:10		TB3.2	<i>Distributed and Real Time Communications Road Connectivity Discovery through Vehicular Ad-Hoc Networks</i> , pp. 1079-1084.	Rondinone, Michele Gozálvez, Javier	Univ. Miguel Hernández of Elche Univ. Miguel Hernández of Elche
<i>Pilot Testing of Certification Methods Developed for ITS Applications Using GNSS Systems</i> , pp. 1019-1024.	Svíttek, Miroslav	Czech Tech. Univ. in Prague, Faculty of Transportation Science	15:10-15:30		TB4.6
	Faltus, Vladimír	Faculty of Transportation Sciences, Czech Tech. in	<i>Performance Analysis and Enhancement of IEEE 802.11p/1609 Protocol Family in Vehicular Environments</i> , pp. 1085-1090.	Du, Yingtian	Beijing Univ. of Posts and Telecommunications
	Lokaj, Zdenek	Faculty of Transportation Sciences, Czech Tech. in		Zhang, Lin	Beijing Univ. of Posts and Telecommunications
14:10-14:30		TB3.3		Feng, Yufei	Beijing Univ. of Posts and Telecommunications
<i>Modeling Framework for the Evaluation of Alternative Truck Lane Management Strategies</i> , pp. 1025-1032.	Rakha, Hesham A. EL-Shawarby, Ihab Park, Sangjun	Virginia Tech. Virginia Tech. Virginia Tech. Transportation Inst.		Ren, Zhanyang	Beijing Univ. of Posts and Telecommunications
	Arafeh, Mazen	Virginia Tech.		Wang, Zi	Beijing Univ. of Posts and Telecommunications
14:30-14:50		TB3.4	TB5		Nautilus I
<i>Micro-Simulation Study of the Effect of Median Bus Lanes with Midblock Stop on Capacity of Urban Signalized Intersection</i> , pp. 1033-1038.	Chen, Xumei Cai, Pei Zhu, Lin Yu, Lei	Beijing Jiaotong Univ. Beijing Jiaotong Univ. Beijing Jiaotong Univ. Texas Southern Univ.	Imaging and Image Analysis 2 (Regular Session)		
			13:30-13:50		TB5.1
			<i>Ground Truth Evaluation of the Stixel Representation Using Laser Scanners</i> , pp. 1091-1097.	Pfeiffer, David Morales, Sandino	Daimler AG Department of Computer Science, Univ. of Auckland, NewZeala
14:50-15:10		TB3.5		Barth, Alexander Franke, Uwe	Univ. of Bonn Daimler AG
<i>A Realistic Simulator for the Design and Evaluation of Intelligent Vehicles</i> , pp. 1039-1044.	Gowal, Sven Zhang, Yizhen Martinoli, Alcherio	EPFL Applied Materials EPFL	13:50-14:10		TB5.2
			<i>Statistical Method for Sub-Pixel Interpolation Function Estimation</i> , pp. 1098-1103.	Haller, Istvan Pantilie, Cosmin Marita, Tiberiu Nedevschi, Sergiu	Tech. Univ. of Cluj-Napoca Tech. Univ. of Cluj-Napoca Tech. Univ. of Cluj-Napoca Tech. Univ. of Cluj-Napoca
15:10-15:30		TB3.6	14:10-14:30		TB5.3
<i>Modeling and Evaluation of Speed Guidance Strategy in VII System</i> , pp. 1045-1050.	Yang, Yudi Chen, Shenyang Sun, Jian	Tongji Univ. Tongji Univ. Tongji Univ.	<i>Block-Matching Based Optical Flow Estimation with Reduced Search Space Based on Geometric Constraints</i> , pp. 1104-1109.	Kitt, Bernd Ranft, Benjamin Lategahn, Henning	KIT KIT KIT
TB4		Cipreia II	14:30-14:50		TB5.4
Communications in ITS (Regular Session)			<i>Polynomial Curb Detection Based on Dense Stereovision for Driving Assistance</i> , pp. 1110-1115.	Oniga, Florin Ioan Nedevschi, Sergiu	Tech. Univ. of Cluj Napoca Tech. Univ. of Cluj-Napoca
13:30-13:50		TB4.1	14:50-15:10		TB5.5
<i>RSU-Based Real-Time Data Access in Dynamic Vehicular Networks</i> , pp. 1051-1056.	Liu, Kai Lee, Victor C. S.	City Univ. of Hong Kong City Univ. of Hong Kong	<i>Pedestrian Behavior Understanding at Railroad Station</i> , pp. 1116-1122.	Fujimura, Kaichi Yoshimitsu, Yuji Naito_, Takeshi Kamijo, Shunsuke	The Univ. of Tokyo Omron Corp. Omron_Co. The Univ. of Tokyo
13:50-14:10		TB4.2	15:10-15:30		TB5.6
<i>Telecommunication Systems Enabling Real Time Navigation</i> , pp. 1057-1064.	Pasolini, Gianni Masini, Barbara Mavi Bazzi, Alessandro Torreggiani, Paolomaria	Univ. of Bologna Univ. of Bologna Univ. of Bologna Univ. of Bologna	<i>A Shadow Removal Algorithm for Vehicle Detection Based on Reflectance Ratio and Edge Density</i> , pp. 1123-1128.	Vargas, Manuel Toral Marín, Sergio Milla, Jose Manuel Barrero, Federico	Univ. of Seville Univ. of Seville Univ. of Seville Univ. of Seville
14:10-14:30		TB4.3	TB6		Nautilus II
<i>Optimizing Information Dissemination in Large Scale Mobile Peer-To-Peer Networks Using Context-Based Grouping</i> , pp. 1065-1071.	Yasar, Ansar-UI-Haque	Department of Computer Science, Katholieke Univ.	Robotics Technologies for Intelligent Autonomous Vehicles (Special Session)		
	Vanrompay, Yves	Department of Computer Science, Katholieke Univ.	Organizer: Nunes, Urbano	Inst. for Systems and Robotics	
	Preuveneers, Davy	Department of Computer Science, Katholieke Univ.	Organizer: Laugier, Christian	INRIA	
	Berbers, Yolande	Department of Computer Science, Katholieke Univ. Be	Organizer: Martinet, Philippe	Blaise Pascal Univ.	
14:30-14:50		TB4.4	13:30-13:50		TB6.1
<i>Information-Centric Opportunistic Data Dissemination in Vehicular Ad Hoc Networks</i> , pp. 1072-1078.	Aguilera Leal, Marina Roeckl, Matthias Kloiber, Bernhard de Ponte Müller, Fabian	Univ. de Malaga German Aerospace Center (DLR) German Aerospace Center (DLR) German Aerospace Center (DLR)	<i>Clavileño: Evolution of an Autonomous Car (I)</i> , pp. 1129-1134.	Milanés, Vicente	Centro de Automática y Robótica (CSIC-UPM)
				Fernandez Llorca, David	Univ. of Alcalá

Vinagre, Blas M Gonzalez, Carlos	Univ. of Extremadura Inst. de Automatica Industrial (Consejo Superior de Investig	Oliveira, Eugénio	Faculty of Engineering, Univ. of Porto
Sotelo Vázquez, Miguel Ángel	Univ. of Alcalá	TB8 Estrela do Mar	
13:50-14:10 <i>Vision-Based Road Detection Via On-Line Video Registration (I)</i> , pp. 1135-1140.	TB6.2	Advances in Traffic State Estimation and Prediction 2 (Special Session)	
Diego, Ferran	Univ. Autonoma de Barcelona & Computer Vision Center	Organizer: van Lint, Hans	Delft Univ. of Tech.
Alvarez, José M. Serrat, Joan López, Antonio M.	Univ. Autonoma de Barcelona Univ. Autónoma de Barcelona Univ. Autónoma de Barcelona	13:30-13:50	TB8.1
14:10-14:30	TB6.3	<i>Lane-Level Traffic Estimations Using Microscopic Traffic Variables (I)</i> , pp. 1189-1194.	
<i>Real-Time Bounded-Error Pose Estimation for Road Vehicles Using Vision (I)</i> , pp. 1141-1146.		Thajchayapong, Suttipong	Imperial Coll. London
Napier, Ashley	Univ. of Oxford	Barria, Javier	Imperial Coll. London
Sibley, Gabe	Univ. of Oxford	Garcia-Trevino, Edgar S.	Imperial Coll. London
Newman, Paul	Univ. of Oxford	13:50-14:10	TB8.2
14:30-14:50	TB6.4	<i>TravRes: A Method for High-Resolution Traffic Speed Reconstruction Using GPS-Based Travel-Times (I)</i> , pp. 1195-1201.	
<i>Using Obstacles and Road Pixels in the Disparity-Space Computation of Stereo-Vision Based Occupancy Grids (I)</i> , pp. 1147-1152.		Ou, Qing	Faculty of Civil Engineering and Geosciences, DelftUniversity of
Perrollaz, Mathias	INRIA	van Lint, Hans	Delft Univ. of Tech.
Yoder, John-David	Ohio Northern Univ.	Hoogendoorn, Serge	Delft Univ. of Tech.
Laugier, Christian	INRIA	14:10-14:30	TB8.3
14:50-15:10	TB6.5	<i>Two Fast Implementations of the Adaptive Smoothing Method Used in Highway Traffic State Estimation (I)</i> , pp. 1202-1208.	
<i>A Cascade Classifier Applied in Pedestrian Detection Using Laser and Image-Based Features (I)</i> , pp. 1153-1159.		Schreiter, Thomas	Delft Univ. of Tech.
Premebida, Cristiano	Inst. for Systems and Robotics	van Lint, Hans	Delft Univ. of Tech.
Ludwig, Oswaldo	ISR-Inst. of Systems and Robotics-UC	Treiber, Martin	Tech. Univ. Dresden
Nunes, Urbano	Inst. for Systems and Robotics	Hoogendoorn, Serge	Delft Univ. of Tech.
Silva, Marco	ISEC	14:30-14:50	TB8.4
15:10-15:30	TB6.6	<i>Comparison of Modelling Approaches for Short Term Traffic Prediction under Normal and Abnormal Conditions (I)</i> , pp. 1209-1214.	
<i>Robust Harris-SURF Features for Robotic Vision Based Navigation (I)</i> , pp. 1160-1165.		Guo, Fangce	Imperial Coll. London
Rodriguez, Diego	Cranfield Univ.	Polak, John	Imperial Coll. London
Aouf, Nabil	Cranfield Univ.	Krishnan, Rajesh	Imperial Coll. London
TB7 Nautilus III		14:50-15:10	TB8.5
Active Traffic Management 2 (Special Session)		<i>Spatial and Temporal Analysis of Traffic States on Large Scale Networks (I)</i> , pp. 1215-1220.	
Organizer: Antoniou, Constantinos	National Tech. Univ. of Athens	Furtlehner, Cyril	Inria
Organizer: Lopes, Jorge	Brisa, Auto-Estradas de Portugal	Han, Yufei	MINES ParisTech
Organizer: Rossetti, Rosaldo	LIACC - Univ. of Porto	Lasgouttes, Jean-Marc	INRIA
13:30-13:50	TB7.1	Martin, Victorin	Inria Rocquencourt
<i>Accelerated On-Line Calibration of Dynamic Traffic Assignment Using Distributed Stochastic Gradient Approximation (I)</i> , pp. 1166-1171.		Marchal, Fabrice	AXONACTIVE AG
Huang, Enyang	Massachusetts Inst. of Tech.	Moutarde, Fabien	Mines ParisTech
Antoniou, Constantinos	National Tech. Univ. of Athens	TC1 Buzio I	
Lopes, Jorge	Brisa Innovation and Tech.	Traffic Emissions: Modeling, Sensing, Evaluation, and Management 2 (Regular Session)	
Wen, Yang	Massachusetts Inst. of Tech.	16:00-16:20	TC1.1
Ben-Akiva, Moshe	Massachusetts Inst. of Tech.	<i>A Numerical Optimization Approach for Calibration of Dynamic Emission Models Based on Aggregated Estimation by ARTEMIS</i> , pp. 1221-1226.	
14:10-14:30	TB7.3	Huang, Zhen	Royal Inst. of Tech.
<i>Agent-Based Traffic Control: A Fuzzy Q-Learning Approach (I)</i> , pp. 1172-1177.		Ma, Xiaoliang	Royal Inst. of Tech. (KTH)
Pacheco Hernandez, Juan Carlos	Univ. de La salle	Koutsopoulos, Haris N.	Royal Inst. of Tech.
Rossetti, Rosaldo	LIACC - Univ. of Porto	16:20-16:40	TC1.2
14:30-14:50	TB7.4	<i>Ubiquitous Architecture for Environmental Sensor Networks in Road Traffic Applications</i> , pp. 1227-1232.	
<i>Operational Challenges of Managed Motorways (I)</i> , pp. 1178-1182.		Guevara, Jean	Catholic Univ. of Asunción, Paraguay
Richetta, Antulio	IBI Group	Vargas, Enrique	Univ. Católica Nuestra Señora de la Asunción (Paraguay)
Simpson, Adam	IBI Group	Barrero, Federico	Univ. of Seville
Kamnitzer, David	IBI Group	Toral-Marín, Sergio	Univ. of Seville
Stewart, Scott	IBI Group	16:40-17:00	TC1.3
14:50-15:10	TB7.5	<i>Vehicle Environment Description and Interpretation Using Conceptual Graphs</i> , pp. 1233-1236.	
<i>TraSMAPI: An API Oriented towards Multi-Agent Systems Real-Time Interaction with Multiple Traffic Simulators (I)</i> , pp. 1183-1188.		Boroch, Natasa	Robert Bosch GmbH
Timóteo, Ivo José Pinto de Macedo	Faculty of Engineering, Univ. of Porto, Portugal	Dr. Heger, Thomas	Robert Bosch GmbH
Ramos de Araújo, Miguel	Faculdade de Engenharia da Univ. do Porto	17:00-17:20	TC1.4
Rossetti, Rosaldo	LIACC - Univ. of Porto	<i>Assessment of Traffic Environment Using Fine-Tuned Dynamic Vehicle Emission Models</i> , pp. 1237-1242.	
		Lei, Wei	Wuhan Univ. of Tech.
		Ma, Xiaoliang	Royal Inst. of Tech. (KTH)
		17:20-17:40	TC1.5
		<i>Derivation of Remote Sensing Cut Points for the Screening of</i>	

<i>High-Emitting Vehicles Trucks, Light Duty Trucks, and Light Duty Vehicles</i> , pp. 1243-1250. Park, Sangjun Virginia Tech. Transportation Inst.	<i>MOBYSIM: An Integrated Traffic Simulation Platform</i> , pp. 1301-1306. van Noort, Martijn van Arem, Bart Park, Byungkyu (Brian)	TNO Delft Univ. of Tech. Univ. of Virginia
Rakha, Hesham A. Virginia Tech.		
17:40-18:00 <i>I2V and V2V Communication Based VANET to Optimize Fuel Consumption at Traffic Signals</i> , pp. 1251-1255. Kumar P, Sanketh Subbarao, Sanjay A Jolapara, Kushal	TC1.6 Visvesvaraya Tech. Univ. Visvesvaraya Tech. Univ. Visvesvaraya Tech. Univ.	TC3.3
TC2 Data Mining, Data Fusion, and Statistical Modeling 2 (Regular Session)	Buzio II	
16:00-16:20 <i>Statistical Modelling and Analysis of Sparse Bus Probe Data in Urban Areas</i> , pp. 1256-1263. Bejan, Andrei Gibbens, Richard Evans, David Beresford, Alastair Bacon, Jean Friday, Adrian	TC2.1 Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge Univ. of Cambridge Lancaster Univ.	
16:20-16:40 <i>Novel Road Classifications for Large Scale Traffic Networks</i> , pp. 1264-1270. Toplak, Werner Koller, Hannes Dragaschnig, Melitta Bauer, Dietmar Asamer, Johannes	TC2.2 AIT Austrian Inst. of Tech. AIT Austrian Inst. of Tech. AIT Austrian Inst. of Tech. AIT Austrian Inst. of Tech. AIT Austrian Inst. of Tech.	
16:40-17:00 <i>Study on Information Fusion Algorithm and Application Based on Improved SVM</i> , pp. 1271-1276. Wang, Yanhui	TC2.3 State Key Lab. of Rail Traffic Control and Safety, Beijing	
Zhang, Chenchen	State Key Lab. of Rail Traffic Control and Safety, Beijing	
Luo, Jun	State Key Lab. of Rail Traffic Control and Safety, Beijing	
17:00-17:20 <i>Unambiguous Metrics for Evaluation of Traffic Networks</i> , pp. 1277-1282. Blokpoel, Robbin Johan Krajzewicz, Daniel Nippold, Ronald	TC2.4 Peek Traffic DLR DLR	
17:20-17:40 <i>Enhancement of Real-Time Traffic Data in Navigation Clients</i> , pp. 1283-1288. Zhang, Yuhe	TC2.5 Hitachi (China) Res. & Development Corp.	
Li, Man	Hitachi (China) Res. & Development Corp.	
Wang, Wenjia	Hitachi (China) Res. & Development Corp.	
17:40-18:00 <i>Automatic Information Recognition of Traffic Panels Using SIFT Descriptors and HMMs</i> , pp. 1289-1294. Gonzalez, Alvaro Bergasa, Luis M. Yebes Torres, Jose Javier Sotelo, Miguel A.	TC2.6 Univ. of Alcalá Univ. of Alcalá Univ. of Alcalá Univ. of Alcalá	
TC3 Simulation and Modeling 2 (Regular Session)	Cipreia I	
16:00-16:20 <i>Study of Pedestrians' Gap Acceptance Behavior When They Jaywalk Outside Crossing Facilities</i> , pp. 1295-1300. Wang, Tianjiao Wu, Jianping Zheng, Pengjun McDonald, Mike	TC3.1 Univ. of Southampton Univ. of Southampton Univ. of Southampton Univ. of Southampton	
16:20-16:40	TC3.2	
TC4 Lane Detection and Lane Keeping (Regular Session)	Cipreia II	
16:00-16:20 <i>Vision-Based Track Estimation and Turnout Detection Using Recursive Estimation</i> , pp. 1330-1335. Ross, Ralph Werner	TC4.1 Karlsruhe Inst. of Tech.	
16:20-16:40 <i>Real Time Lane Detection and Tracking System Evaluated in a Hardware-In-The-Loop Simulator</i> , pp. 1336-1343. Attachment Coskun, Fuat Tuncer, Ozgur Karsligil, M.Elif Guvenc, Levent	TC4.2 Yildiz Tech. Univ. Ford Otosan Yildiz Tech. Univ. Istanbul Tech. Univ.	
16:40-17:00 <i>Fast Lane Detection & Tracking Based on Hough Transform with Reduced Memory Requirement</i> , pp. 1344-1349. Attachment Kuk, Jung Gap An, Jae Hyun Ki, Hoyong Cho, Nam Ik	TC4.3 Seoul National Univ. Seoul National Univ. WISE automotive Corp. Seoul National Univ.	
17:00-17:20 <i>Lane Detection System for Vehicle Platooning Using Multi-Information Map</i> , pp. 1350-1356. Kasai, Tatsuya Onoguchi, Kazunori	TC4.4 Hirosaki Univ. Hirosaki Univ.	
17:20-17:40 <i>A New Method for Robust Far-Distance Road Course Estimation in Advanced Driver Assistance Systems</i> , pp. 1357-1362. Meis, Urban Klein, Wladimir Wiedemann, Christoph	TC4.5 A.D.C. GmbH A.D.C. GmbH A.D.C. GmbH	
17:40-18:00 <i>Dynamic Controller for Lane Keeping and Obstacle Avoidance Assistance System</i> , pp. 1363-1368. Benine-Neto, André Scalzi, Stefano Mammar, Said Netto, Mariana	TC4.6 LCPC/INRETS Univ. of Rome Tor Vergata Univ. EVRY LCPC	
TC5 Imaging and Image Analysis 3 (Regular Session)	Nautilus I	
16:00-16:20 <i>Traffic Sign Detection Using Surround Suppression of Texture</i>	TC5.1	

<i>Edges and Cascade Detector</i> , pp. 1369-1374.			
Cai, Lei	National Center of ITS Engineering & Tech. Res. Inst.	Raksincharoensak, Pongsathorn	Tokyo Univ. of Agriculture and Tech.
Zhang, Chunyu	National Center of ITS Engineering & Tech. Res. Inst.	Nagai, Masao	Tokyo Univ. of Agriculture and Tech.
Li, Bin	National Center of ITS Engineering & Tech. Res. Inst.	Sannodo, Shinya	Toyota Motor Corp.
Zhong, Chongbo	National Center of ITS Engineering & Tech. Res. Inst.	Hoshino, Masayoshi	Toyota Motor Corp.
Wang, Qi	National Center of ITS Engineering & Tech. Res. Inst.		
16:20-16:40	TC5.2	17:20-17:40	TC6.5
<i>An Automatic Image Recognition System for Winter Road Surface Condition Classification</i> , pp. 1375-1379.		<i>Designing a User Interface for Improving the Awareness of Mining Vehicle Operators</i> , pp. 1435-1441.	
Omer, Raqib	Department of Civil and Environmentan Engineering Univ.	Orchansky, David	Univ. of Sydney
Fu, Liping	Univ. of Waterloo	Worrall, Stewart	Univ. of Sydney
16:40-17:00	TC5.3	Maclean, Andrew	Univ. of Sydney
<i>Confidence Factor Determination for Performance Evaluation of Lighting Pattern</i> , pp. 1380-1387.		Nebot, Eduardo	ACFR Univ. of Sydney
Chowdhury, Shyama Prosad	Queen's Univ. Belfast	17:40-18:00	TC6.6
Rafferty, Karen	Queen's Univ. Belfast	<i>A Driver-To-Infrastructure Interaction System for Motorcycles Based on Smartphone</i> , pp. 1442-1447.	
Ferguson, Stuart	Queen's Univ. Belfast	Manzoni, Vincenzo	Pol. di Milano
17:00-17:20	TC5.4	Corti, Andrea	Pol. di Milano
<i>Fast Real-Time Multiclass Traffic Sign Detection Based on Novel Shape and Texture Descriptors</i> , pp. 1388-1395.		Spelta, Cristiano	Univ. degli Studi di Bergamo
Landesa-Vázquez, Iago	Univ. de Vigo	Savaresi, Sergio	Pol. di Milano
Parada-Loira, Francisco	Univ. de Vigo		
Alba-Castro, Jose L.	Univ. de Vigo		
17:20-17:40	TC5.5	TC7	Nautilus III
<i>Detection and Tracking of Independently Moving Objects in Urban Environments</i> , pp. 1396-1401.		Ramp Metering (Special Session)	
Kitt, Bernd	KIT	Organizer: Papamichail, Ioannis	Tech. Univ. of Crete
Ranft, Benjamin	KIT	Organizer: Papageorgiou, Markos	Tech. Univ. of Crete
Lategahn, Henning	KIT	Organizer: Wang, Yibing	Monash Univ.
17:40-18:00	TC5.6	16:00-16:20	TC7.1
<i>CUDA Implementation of Belief Propagation for Stereo Vision</i> , pp. 1402-1407.		<i>Balancing of Queues or Waiting Times on Metered Dual-Branch On-Ramps (I)</i> , pp. 1448-1455.	
Choi, Young-kyu	LG Electronics	Papamichail, Ioannis	Tech. Univ. of Crete
		Papageorgiou, Markos	Tech. Univ. of Crete
		16:20-16:40	TC7.2
		<i>A Coordinated Ramp Metering Algorithm for Minnesota's Freeways Based on Density (I)</i> , pp. 1456-1461.	
		Geroliminis, Nikolas	Ec. Pol. Fédérale de Lausanne
		Srivastava, Anupam	Univ. of Minnesota
		Michalopoulos, Panos	Univ. of Minnesota
		16:40-17:00	TC7.3
		<i>Local Ramp Metering in the Presence of Random-Location Bottlenecks Downstream of a Metered On-Ramp (I)</i> , pp. 1462-1467.	
		Wang, Yibing	Monash Univ.
TC6	Nautilus II	Papageorgiou, Markos	Tech. Univ. of Crete
Driver Assistance Systems and HMI (Regular Session)		Gaffney, John	ARRB Group
16:00-16:20	TC6.1	Papamichail, Ioannis	Tech. Univ. of Crete
<i>Heuristic Rule for Truck Dispatching in Open-Pit Mines with Local Information-Based Decisions</i> , pp. 1408-1414.		Guo, Jingqu	The Univ. of Western Australia
Arelovich, Ariel	Univ. Nacional del Sur	17:00-17:20	TC7.4
Masson, Favio	Univ. Nacional del Sur	<i>The Impacts of a Communication Based Merging Assistant on Traffic Flows of Manual and Equipped Vehicles at an On-Ramp Using Traffic Flow Simulation</i> , pp. 1468-1473.	
Agamenonni, Osvaldo	Univ. Nacional del Sur	Pueboobpaphan, Rattaphol	Univ. of Twente
Worrall, Stewart	Univ. of Sydney	Liu, Fei	Univ. of Twente
Nebot, Eduardo	ACFR Univ. of Sydney	van Arem, Bart	Delft Univ. of Tech.
16:20-16:40	TC6.2	17:20-17:40	TC7.5
<i>Camera Egomotion Estimation in the ADAS Context</i> , pp. 1415-1420.		<i>Ex-Ante Evaluations for Ramp Metering Facilities</i> , pp. 1474-1479.	
Cheda, Diego	Autonomous Univ. of Barcelona	Grosanic, Slavica	Tech. Univ. München
Ponsa, Daniel	Centre de Visió per Computador	Spangler, Matthias	Tech. Univ. München
López, Antonio M.	Univ. Autñnoma de Barcelona	Busch, Fritz	Tech. Univ. Muenchen
16:40-17:00	TC6.3	TC8	Estrela do Mar
<i>ATLASCAR – Technologies for a Computer Assisted Driving System on Board a Common Automobile</i> , pp. 1421-1427.		Advances in Positioning and Map-Matching and Applications (Special Session)	
Santos, Vitor	Univ. of Aveiro	Organizer: Toledo-Moreo, Rafael	Univ. of Murcia, Tech. Univ. of Cartagena
Almeida, Jorge	Univ. of Aveiro	16:00-16:20	TC8.1
Avila, Emanuel	Univ. of Aveiro	<i>Advanced Signal Processing Techniques for Multipath Mitigation in Land Transportation Environment (I)</i> , pp. 1480-1485.	
Gameiro, David	Univ. of Aveiro	Marais, Juliette	THE FRENCH NATIONAL Inst. FOR TRANSPORT AND SAFETY Res.
Riem de Oliveira, Miguel	Univ. of Aveiro	Dufflos, Emmanuel	Ec. Centrale de Lille
Armando		Viandier, Nicolas	INRETS
Pascoal, Ricardo	Univ. of Aveiro	Nahimana, Donnay Fleury	INRETS
Sabino, Rémi	Univ. of Aveiro		
Stein, Procópio	Univ. of Aveiro		
17:00-17:20	TC6.4		
<i>Study on Acceleration and Deceleration Maneuver Guidance for Driver by Gas Pedal Reaction Force Control</i> , pp. 1428-1434.			
Hayashi, Ryuzo	Tokyo Univ. of Agriculture and Tech.		
Yin, Feilong	Tokyo Univ. of Agriculture and Tech.		

Rabaoui, Asma	INRETS
16:20-16:40	TC8.2
<i>An Analysis of Positioning and Map-Matching Issues for GNSS-Based Road User Charging (I)</i> , pp. 1486-1491.	
Toledo-Moreo, Rafael	Univ. of Murcia, Tech. Univ. of Cartagena
Ubeda, Benito	Univ. de Murcia
Santa, José	Univ. of Murcia
Zamora-Izquierdo, Miguel A.	Univ. of Murcia
Gomez-Skarmeta, Antonio, F.	Univ. of Murcia
16:40-17:00	TC8.3
<i>Using Recursive Bayesian Estimation for Matching GPS Measurements to Imperfect Road Network Data (I)</i> , pp. 1492-1497.	
Mazhelis, Oleksiy	Univ. of Jyväskylä, Finland
17:00-17:20	TC8.4
<i>Multi-Hypothesis Map-Matching on 3D Navigable Maps Using Raw GPS Measurements (I)</i> , pp. 1498-1503.	
Fouque, Clément	Univ. of Tech. of Compiègne
Bonnifait, Philippe	Univ. of Tech. of Compiègne
17:20-17:40	TC8.5
<i>Robustification of a Map Aided Location Process Using Road Direction (I)</i> , pp. 1504-1510.	
Selloum, Ahmed	LCPC
Bétaillé, David	LCPC
Le Carpentier, Éric	Ec. Centrale de Nantes
Peyret, Francois	LCPC
17:40-18:00	TC8.6
<i>Vehicle Geolocalization Based on Video Synchronization (I)</i> , pp. 1511-1516.	
Diego, Ferran	Univ. Autònoma de Barcelona & Computer Vision Center
Ponsa, Daniel	Centre de Visió per Computador
Serrat, Joan	Univ. Autònoma de Barcelona
López, Antonio M.	Univ. Autònoma de Barcelona
18:00-18:20	TC8.7
<i>Automated Map Generation from Aerial Images for Precise Vehicle Localization (I)</i> , pp. 1517-1522.	
Pink, Oliver	Karlsruhe Inst. of Tech.
Stiller, Christoph	Karlsruhe Inst. of Tech.

WA1 Buzio I
Traffic State Prediction and Estimation (Regular Session)

09:00-09:20	WA1.1
<i>Segmented Regression Analysis for Estimation of Traffic Characteristics - Application to Local Data, Section Data and Information Derived from Position Reports</i> , pp. 1523-1528.	
Maier, Friedrich	Siemens AG
09:40-10:00	WA1.3
<i>Urban Traffic Network Modeling and Short-Term Traffic Flow Forecasting Based on GSTARIMA Model</i> , pp. 1535-1540.	
Min, Xinyu	Tsinghua Univ.
Hu, Jianming	Tsinghua Univ.
10:20-10:40	WA1.5
<i>Short-Term Traffic Speed Forecasting Based on Data Recorded at Irregular Intervals</i> , pp. 1541-1546.	
Ye, Qing	The Univ. of Hong Kong
Wong, S.C.	The Univ. of Hong Kong
Szeto, Wai Yuen	The Univ. of Hong Kong

WA2 Buzio II
Optimization and Control: Theory and Modeling 2 (Regular Session)

09:00-09:20	WA2.1
<i>Hierarchical Multiobjective Model Predictive Control Applied to a Dynamic Pickup and Delivery Problem</i> , pp. 1553-1558.	
Nunez, Alfredo	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Saez, Doris	Univ. de Chile
Cortes, Cristian	Univ. of Chile
09:20-09:40	WA2.2
<i>Improvement of Operating Strategy for Parallel Hybrid Cars by Adaptation to Actual Route and Electrical On-Board Load</i> , pp. 1559-1563.	
Stiegeler, Markus Michael	Univ. of Ulm
Bitzer, Bernhard	Univ. of Ulm
Kabza, Herbert	Univ. of Ulm
09:40-10:00	WA2.3
<i>Optimizing Gate Assignments at Airport</i> , pp. 1564-1568.	
Zheng, Pan	Beijing Jiaotong Univ.
Zhang, Chen	Center of Aviation Safty Tech. CAAC
Hu, Siji	Beijing Jiaotong Univ.
Liang, Yinghui	Beijing Jiaotong Univ.
Sun, Xiaoliang	Beijing Jiaotong Univ.
10:20-10:40	WA2.5
<i>A Multi-Agent System to Regulate Urban Traffic: Private Vehicles and Public Transport</i> , pp. 1575-1581.	
Bhouri, Neila	INRETS
Balbo, Flavien	Univ. Paris-Dauphine

WA3 Cipreia I
Simulation and Modeling 3 (Regular Session)

09:00-09:20	WA3.1
<i>ADAS Module in Driving Simulation for Training Young Drivers</i> , pp. 1582-1587.	
Panou, Maria	Centre for Res. and Tech. Hellas
Bekiaris, Evangelos	Centre for Res. and Tech. Hellas
Touliou, Aikaterini	Hellenic Inst. of Transport
09:20-09:40	WA3.2
<i>Modelling and Simulation of a Commercial Electric Vehicle</i> , pp. 1588-1593.	
Terras, José	Inst. Superior Técnico - TU Lisbon
Neves, André	Inst. Superior Técnico - TU Lisbon
Sousa, Duarte	Inst. Superior Técnico/DEEC/AC Energia - TU Lisbon
Roque, António	ESTSetúbal - Inst. Pol. de Setúbal
09:40-10:00	WA3.3
<i>Impacts of High Occupancy Toll Lane Operations on High Occupancy Vehicle Travelers</i> , pp. 1594-1599.	
Zhang, Guohui	Univ. of Texas
Wu, Yao-Jan	Univ. of Washington
Liu, Xiaoyue	Univ. of Washington
Wang, Yin Hai	Univ. of Washington
10:00-10:20	WA3.4
<i>Simulation and Performance Assessment of Airport Landing Lighting</i> , pp. 1600-1607.	
Chowdhury, Shyama Prosad	Queen's Univ. Belfast
Rafferty, Karen	Queen's Univ. Belfast
Ferguson, Stuart	Queen's Univ. Belfast
10:20-10:40	WA3.5
<i>Approaches for Increasing Availability of Component-Based Traffic Management Software</i> , pp. 1608-1613.	
Stoegerer, Christoph	SWARCO Futurit GmbH

Kastner, Wolfgang	Vienna Univ. of Tech.	10:00-10:20	WA5.4
WA4			
Driver Behavior under ITS (Regular Session)		Cipreia II	
09:00-09:20	WA4.1	Lu, Henghui	Tsinghua Univ.
<i>Empirical Study of Drivers' Learning Behavior and Reliance on VMS</i> , pp. 1614-1619.		Zhang, Sheng	Tsinghua Univ.
Zhao, Dan		Dong, Yuhang	Tsinghua Univ.
		Lin, Xiaokang	Tsinghua Univ.
WA6			
Environment Perception (Regular Session)		Nautilus II	
09:00-09:20	WA6.1		
<i>System Approach for Multi-Purpose Representations of Traffic Scene Elements</i> , pp. 1677-1684.			
		Schmuедderich, Jens	Honda Res. Inst. Europe GmbH
		Einecke, Nils	Honda Res. Inst. Europe GmbH
		Hasler, Stephan	Honda Res. Inst. Europe GmbH
		Gepperth, Alexander	Honda Res. Inst. Europe GmbH
		Bolder, Bram	Honda Res. Inst. Europe GmbH
		Kastner, Robert	Darmstadt Univ. of Tech.
		Franzius, Mathias	Honda Res. Inst. Europe GmbH
		Rebhan, Sven	Honda Res. Inst. Europe GmbH
		Dittes, Benjamin	Honda Res. Inst. Europe GmbH
		Wersing, Heiko	Honda Res. Inst. Europe GmbH
		Eggert, Julian	Honda Res. Inst. Europe GmbH
		Fritsch, Jannik	Honda Res. Inst. Europe GmbH
		Goerick, Christian	Honda Res. Inst. Europe GmbH
09:20-09:40	WA6.2		
<i>Robust Tracking and Monocular 3D Reconstruction of Line-Based Features in Urban Environments</i> , pp. 1685-1690.			
		Schönherr, Kristin	AUDI AG
		Giesler, Björn	Audi Electronics Venture GmbH
		Wahju, Sonja Theresia	Univ. of Stuttgart
		Knoll, Alois	Tech. Univ. München
09:40-10:00	WA6.3		
<i>Fusion of Clothoid Segments for a More Accurate and Updated Prediction of the Road Geometry</i> , pp. 1691-1696.			
		Gackstatter, Christina	Audi Electronics Venture GmbH
		Thomas, Sven	Leibniz Univ. Hannover
		Heinemann, Patrick	Audi Electronics Venture GmbH
		Rosenhahn, Bodo	Leibniz Univ. Hannover
		Klinker, Gudrun	Tech. Univ. München
10:00-10:20	WA6.4		
<i>A Vision System for Autonomous Vehicle Navigation in Challenging Traffic Scenes Using Integrated Cues</i> , pp. 1697-1704.			
		Guo, Chunzhao	Toyota Tech. Inst.
		Mita, Seiichi	Toyota Tech. Inst.
		McAllester, David	Toyota Tech. Inst. at Chicago
10:20-10:40	WA6.5		
<i>Visual State Estimation of Traffic Lights Using Hidden Markov Models</i> , pp. 1705-1710.			
		Nienhüser, Dennis	FZI Forschungszentrum Informatik
		Drescher, Markus	FZI Forschungszentrum Informatik
		Zöllner, J. Marius	FZI Forschungszentrum Informatik
WA7			
Cooperative Techniques and Systems (Regular Session)		Nautilus III	
09:00-09:20	WA7.1		
<i>An Active Approach to Guaranteed Arrival Times Based on Traffic Shaping</i> , pp. 1711-1717.			
		Marinescu, Dan	Trinity Coll. Dublin
		Sum, Jan	Trinity Coll. Dublin
		Slot, Marco	Trinity Coll. Dublin
		Bouroche, Mélanie	Trinity Coll. Dublin
		Cahill, Vinny	Trinity Coll. Dublin
09:20-09:40	WA7.2		
<i>A Testing Platform for Cooperative Vehicle Platoon Controllers</i> , pp.			
WA5			
Localization (Regular Session)		Nautilus I	
09:00-09:20	WA5.1		
<i>Autonomous Robot Navigation Based on OpenStreetMap Geodata</i> , pp. 1645-1650.			
		Hentschel, Matthias	Leibniz Univ. Hannover, Inst. for Systems Engineering
		Wagner, Bernardo	Leibniz Univ. Hannover, Inst. for Systems Engineering,
09:20-09:40	WA5.2		
<i>Image Analysis Based Real Time Detection of Satellites Reception State</i> , pp. 1651-1656.			
		Attia, Dhouha	Univ. of Tech. of Belfort-Montbéliard
		Meurie, Cyril	Univ. of Tech. of Belfort-Montbéliard
		Ruichek, Yassine	Univ. of Tech. of Belfort-Montbéliard
		Marais, Juliette	THE FRENCH NATIONAL Inst. FOR TRANSPORT AND SAFETY Res.
		Flancquart, Amaury	THE FRENCH NATIONAL Inst. FOR TRANSPORT AND SAFETY Res.
09:40-10:00	WA5.3		
<i>Localization for Intelligent Vehicle by Fusing Mono-Camera, Low-Cost GPS and Map Data</i> , pp. 1657-1662.			
		Li, Hao	Mines Paris (ParisTech) / INRIA-IMARAtteam
		Nashashibi, Fawzi	Mines Paris - ParisTech
		Toulminet, Gwenaëlle	INSA de Rouen

1718-1723. <u>Attachment</u> Diab, Hilal Chávez Grunewald, Martín Guillermo Ben Makhlouf, Ibtissem	RWTH Univ. RWTH-Aachen Univ. Embedded software Lab. RWTH Aachen Aachen Univ. Aachen Univ.	11:20-11:40 <i>A Hybrid Travel Time Prediction Framework for Planned Motorway Roadworks</i> , pp. 1770-1776. Calvert, Simeon Craig van Lint, Hans Hoogendoorn, Serge	WB1.2 TNO Delft Univ. of Tech. Delft Univ. of Tech.
09:40-10:00 <i>Exploitability of Vehicle Related Sensor Data in Cooperative Systems</i> , pp. 1724-1729.	WA7.3 Tech. Univ. Braunschweig Tech. Univ. Braunschweig Tech. Univ. Braunschweig Tech. Univ. Braunschweig Tech. Univ. Brunswick Tech. Univ. Braunschweig	12:00-12:20 <i>Online Train Delay Recognition and Running Time Prediction</i> , pp. 1783-1788. Hansen, Ingo A. Goverde, Rob Van der Meer, Dirk	WB1.4 Delft Univ. of Tech. Delft Univ. of Tech. Railinfra Solutions
10:00-10:20 <i>A New Variable Time-Gap Policy for Circular Highways</i> , pp. 1730-1734.	WA7.4 Tokyo Inst. of Tech. Tokyo Inst. of Tech. The Univ. of Tokyo	11:00-11:20 <i>A Model for Analyzing Metro Station Platform Conditions Following a Service Disruption</i> , pp. 1789-1794. Kepaptsoglou, Konstantinos Karlaftis, Matthew	WB2.1 School of Civil Engineering, National Tech. Univ. of Athens School of Civil EngineeringNational Tech. Univ. ofAthens
WA8 Demand Management, Statistical Modeling, and Traveller Services (Regular Session)	Estrela do Mar		
09:00-09:20 <i>Recommended Practice in Adaptation Strategies for Long-Term Sustainable Transport Planning</i> , pp. 1735-1740.	WA8.1 Transportation Ec. Lab.	11:20-11:40 <i>Wireless Detection of End-To-End Passenger Trips(; on Public Transport Buses</i> , pp. 1795-1800. Kostakos, Vassilis Camacho, Tiago Mantero, Claudio	WB2.2 Madeira Interactive Tech. Inst. Madeira Interactive Tech. Inst. Horarios do Funchal
09:20-09:40 <i>Real Time Traffic Congestion Degree Computation for Minor Sensorless Roads Using Cost Efficient Context Reasoning</i> , pp. 1741-1746.	WA8.2 Monash Univ. National Electronics and Computer Tech. Center Lulel Univ. of Tech. King Mongkut's Univ. of Tech. North Bangkok	12:00-12:20 <i>The Design and Implementation of Beijing Olympic Games Public-Travel Website</i> , pp. 1801-1806. Lin, Dongmei Wang, Zhenjun Guan, Jizhen Liu, Jun	WB2.4 Beijing Jiaotong Univ. Beijing STONE Intelligent Transportation System Integration CO., Beijing STONE Intelligent Transportation System Integration CO., Beijing Jiaotong Univ.
10:00-10:20 <i>Effect of Integrated Multi-Modal Transit Information on Modal Shift</i> , pp. 1753-1757.	WA8.4 Shanghai Univ. of Engineering Science Tongji Univ. Shanghai Univ. of Engineering Science Tongji Univ.	12:00-12:20 <i>A Personalized Web Based Public Transit Information System with User Feedback</i> , pp. 1807-1812. Hoar, Ricardo	WB2.5 Mount Royal Univ.
10:20-10:40 <i>An Evaluation Study of a Holistic Dangerous Goods Cooperative System</i> , pp. 1758-1763.	WA8.5 Centre for Res. and Tech. Hellas Centre for Res. andTechnology Hellas Informatics and Telematics Inst. Centre for Res. Tec	WB3 Traffic Theory for ITS (Regular Session)	Cipreia I
11:00-11:20 <i>Arterial Travel Time Estimation Using VII Probe Data and Point-Based Detection Data</i> , pp. 1764-1769.	WB1.1 PATH, Univ. of California, Berkeley Scool of Transportation Engineering,Tongji Univ. PATH,Univ. of California at Berkeley	11:00-11:20 <i>Computational Experiments for Studying Impacts of Land Use on Traffic Systems</i> , pp. 1813-1818. Ou, Yan Tang, Shuming Wang, Fei-Yue 11:20-11:40 <i>Reconstruction of Delay Distribution at Signalized Intersections Based on Traffic Measurements</i> , pp. 1819-1824. Zheng, Fangfang Van Zuylen, H.J. 11:40-12:00 <i>Equilibrium Properties of the Morning Commuting in a Many-To-One Corridor Network</i> , pp. 1825-1830. Tian, Qiong Huang, Hai-Jun Yang, Hai	WB3.1 Inst. of Automation, Chinese Acad. of Sciences Inst. of Automation, Chinese Acad. of Sciences Univ. of Arizona WB3.2 WB3.3 Beijing Univ. of Aeronautics and Astronautics Beijing Univ. of Aeronautics and Astronautics The Hong Kong Univ. of Science
WB1 Travel Time Estimation and Prediction (Regular Session)	Buzio I		

Mou, Hui	and Tech. Beijing Univ. of Aeronautics and Astronautics	Goermer, Steffen M. Hold, Stephanie Meuter, Mirko Kummert, Anton Iurgel, Uri	Univ. of Wuppertal Univ. of Wuppertal Delphi Electronics & Safety Univ. of Wuppertal Delphi Electronics & Safety
12:00-12:20 <i>Willingness to Use Advanced Traveler Information Systems in Austria</i> , pp. 1831-1836. Seebauer, Sebastian	x-sample Hutsteiner & Seebauer OG		
Berger, Martin	verkehrplus Prognose, Planung und Strategieberatung GmbH		
WB4 Collision Prediction and Avoidance (Regular Session)		Cipreia II	
11:00-11:20 <i>A Decision-Theoretic Approach to Developing Robust Collision Avoidance Logic</i> , pp. 1837-1842. Kochenderfer, Mykel	WB4.1 Lincoln Lab. Massachusetts Inst. of Tech.		
Chryssanthacopoulos, James	Lincoln Lab. Massachusetts Inst. of Tech.		
11:20-11:40 <i>Day and Night Pedestrian Detection Using Cascade AdaBoost System</i> , pp. 1843-1848. Ceri, Pietro Gatti, Luca Mazzei, Luca Pigoni, Fabio Jung, Ho Gi	WB4.2 Univ. of Parma Parma Univ. Parma Univ. Parma Univ. Yonsei Univ.		
11:40-12:00 <i>The Accuracy and Timing of Pedestrian Warnings at Intersections: The Acceptance from Drivers and Their Preferences</i> , pp. 1849-1854. de Boer, Josine Chaziris, Antonios Vreeswijk, Jaap Bie, Jing van Arem, Bart	WB4.3 Univ. of Twente Univ. of Twente Peek Traffic BV Univ. of Twente Delft Univ. of Tech.		
12:00-12:20 <i>Threat Assessment Design for Driver Assistance System at Intersections</i> , pp. 1855-1862. Aoude, Georges Luders, Brandon Lee, Kenneth King Ho Levine, Daniel How, Jonathan	WB4.4 MIT MIT MIT MIT MIT		
WB7 Imaging and Image Analysis 4 (Regular Session)		Nautilus III	
11:00-11:20 <i>Estimating Surrounding Vehicles' Pose Using Computer Vision</i> , pp. 1863-1868. Nuevo, Jesus Parra Alonso, Ignacio Sjöberg, Jonas Bergasa, Luis M.	WB7.1 Univ. of Alcala Univ. de Alcala Chalmers Univ. Univ. of Alcala		
11:20-11:40 <i>Combining SURF-Based Local and Global Features for Road Obstacle Recognition in Far Infrared Images</i> , pp. 1869-1874. Bassem, Besbes Anca, Apatean Alexandrina, Rogozan Abdelaziz, Benshair	WB7.2 National Inst. for Applied Sciences- Rouen Tech. Univ. of Cluj-Napoca, Romania National Inst. of Applied Sciences- Rouen National Inst. of Applied Sciences- Rouen,		
11:40-12:00 <i>Vision-Based Bicycle Detection and Tracking Using a Deformable Part Model and an EKF Algorithm</i> , pp. 1875-1880. Cho, Hyunggi Rybski, Paul Zhang, Wende	WB7.3 Carnegie Mellon Univ. Carnegie Mellon Univ. GM R&D		
12:00-12:20 <i>Multi-Exposure Image Acquisition for Automotive High Dynamic Range Imaging</i> , pp. 1881-1886.	WB7.4		
WB8 Advanced Vehicle Safety Systems 2 (Regular Session)		Estrela do Mar	
11:00-11:20 <i>Estimation of Drivers' Drowsiness Level Using a Neural Network Based 'Error Correcting Output Coding' Method</i> , pp. 1887-1892. Tsuchida, Ayumi Bhuiyan, Shoaib Oguri, Koji	WB8.1 Aichi Prefectural Univ. Suzuka Univ. of Medical Science Aichi Prefectural Univ.		
11:20-11:40 <i>Integrated Vehicle Recognition and Inspection System to Improve Security in Restricted Access Areas</i> , pp. 1893-1898. Anagnostopoulos, Christos-Nikolaos Giannoukos, Ioannis Alexandropoulos, Theodoros	WB8.2 Univ. of the Aegean National Tech. Univ. of Athens Electrical & Computer Engineering School, National Technical Univ. Electrical & Computer Engineering School, National Technical Univ. Electrical & Computer Engineering School, National Technical Univ. Electrical & Computer Engineering School, National Technical Univ.		
11:40-12:00 <i>Model-Free Control Techniques for Stop & Go Systems</i> , pp. 1899-1904. Villagra, Jorge Milanés, Vicente Pérez, Joshué Gonzalez, Carlos	WB8.3 Centro de Automática y Robótica (CSIC-UPM) Centro de Automática y Robótica (CSIC-UPM) Centro de Automática y Robótica (CSIC-UPM) Centro de Automática y Robótica (CSIC-UPM)		
12:00-12:20 <i>Design of Dependable System Architectures for a Railroad Smart Wagon Using Shared Functions</i> , pp. 1905-1910. Clarhaut, Joffrey Hayat, Said Conrard, Blaise Cocquemot, Vincent	WB8.4 French National Inst. for Transport and Safety Res. INRETS L.A.G.I.S. L.A.G.I.S.		