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Pangerl, Sebastian		FORWISS, Univ. of Passau, Germany
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Ruichek, Yassine		Univ. of Tech. of Belfort-Montbéliard
Marais, Juliette		French Inst. of science and Tech. for transport, develop
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Kuroyanagi, Yuichi		Nagoya Univ.
Ishikawa, Hiroaki		Nagoya Univ.
Angkitittrakul, Pongtep		Nagoya Univ.

Terashima, Ryuta	Toyota Central R&D Lab. INC.
Wakita, Toshihiro	Toyota Central R&D Lab. INC.
Oikawa, Masato	Tokio Marine Nichida Risk Consulting Co., Ltd.
Komada, Yuichi	Tokio Marine Nichido Risk Consulting Co., Ltd.
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Utsumi, Akira	ATR
Fujimoto, Kiyoshi	Fuji Heavy Industries Ltd.
Abe, Shinji	ATR Intelligent Robotics and Communication Lab.
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Liu, Jingwei	Shenzhen Graduate School, Peking Univ.
Yuan, Yule	Shenzhen Graduate School, Peking Univ.
Luo, Wei	Shenzhen Graduate School, Peking Univ.
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Cardarelli, Elena	Univ. of Parma
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Chang, Hong	Caterpillar Inc.
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Wan, Jingyan		State Univ. of New York (SUNY)-Buffalo
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Djemai, Mohamed		UVHC
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Ghaffari, Ali		K.N.Toosi Univ. of Tech.
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Reinhard Brauningl, Prof.		Inst. of Mechanics, Graz Univ. of Tech. Graz, Austria
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Wang, Kai		Inst. of Automation, Chinese Acad. of Sciences
Zhu, Fenghua		Inst. of Automation, Chinese Acad. of Sciences

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Hadachi, Amnir	INSA DE ROUEN
Lecomte, Christele	Univ. DE ROUEN
Mousset, Stéphane	INSA/Univ. de ROUEN
Bensrhair, Abdelaziz	National Inst. of Applied Sciences- Rouen,
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Datta Gupta, Somak	PATH, UC Berkeley
Li, Jing-Quan	Univ. of California at Berkeley
Zhou, Kun	Univ. of California at Berkeley
Zhang, Wei-bin	Univ. of California at Berkeley
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Chen, Cheng	Inst. of Automation, Chinese Acad. of Sciences
Zhu, Fenghua	Inst. of Automation, Chinese Acad. of Sciences
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Sattel, Thomas	Heinz Nixdorf Inst. Univ. of Paderborn
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Kochenderfer, Mykel	Lincoln Lab. Massachusetts Inst. of Tech.
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Fajardo, David	Univ. of Texas at Austin
Waller, S. Travis	Univ. of Texas
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Morgan, Daniel	Caliper Corp.
Slavin, Howard	Caliper Corp.
Yang, Qi	Caliper Corp.
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Cai, Chen	NICTA
Walsh, Toby	NICTA
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Redmill, Keith	Ohio State Univ.
Ozguner, Umit	Ohio State Univ.
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Scheepers, Bart	TNO
Van Nunen, Ellen	TNO
van de Wouw, Nathan	Eindhoven Univ. of Tech.
Nijmeijer, Henk	Eindhoven Univ. of Tech.
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Kong, Qing-Jie	Shanghai Jiao Tong Univ.
Xia, Yingjie	Hangzhou Normal Univ.
Liu, Yuncai	Shanghai Jiao Tong Univ.
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Mashayekhy, Lena	Wayne State Univ.
Taghavi, Ali	Wayne State Univ.
Chinnam, Ratna Babu	Wayne State Univ.
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Vucetic, Slobodan	Temple Univ.
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Xu, Wenda	Tsinghua Univ.
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Zha, Hongbin	Peking Univ.
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Chen, Duan-Yu	Dept. EE, Yuan Ze Univ. Taiwan
Lin, Yu-Hao	Dept. EE, Yuan Ze Univ. Taiwan
Kuo, Hui-Ping	Info. and Comm. Res. Lab. Industrial Tech. Res. In
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Yang, Deliang	Beijing Univ. of Tech.
Xin, Le	Beijing Univ. of Tech.

Chen, Yangzhou	Beijing Univ. of Tech.
Li, Zhenlong	BJUT
Wang, Chen	Beijing Univ. of Tech.

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Zavidovique, Bertrand	Univ. Paris Sud XI

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Zhao, Yong	Shenzhen Graduate School, Peking Univ.
Yuan, Yule	Shenzhen Graduate School, Peking Univ.
Bai, Subin	Shenzhen Graduate School, Peking Univ.
Liu, Kai	Shenzhen Graduate School, Peking Univ.
Fang, Wei	Shenzhen Graduate School, Peking Univ.

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Drulea, Marius	Tech. Univ. of Cluj-Napoca
Nedevschi, Sergiu	Tech. Univ. of Cluj-Napoca

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Co-Chair: Wu, Changxu	State Univ. of New York at Buffalo

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

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Hrazdira, Adam	Brno Univ. of Tech.
Reama, Abdellatif	ESIEE Paris
Hamouche, Rehda	ESIEE Paris
Niculescu, Silviu-Iulian	Lab. de Signaux et Systemes (L2S, UMR CNRS 8506)
Mounier, Hugues	LSS
Natowicz, René	ESIEE Paris
Kocik, Remy	ESIEE Paris

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Kamalanathsharma, Raj Kishore	Virginia Tech.

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Chair: Bento, Carlos	Univ. of Coimbra
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Schuricht, Philipp	Inst. of Automotive Tech. - IAD, Dresden Univ. o
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Bäker, Bernard	Dresden Univ. of Tech.
Michler, Oliver	Inst. of Traffic Telematics, Dresden Univ. of Tech.
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Bauer, Dietmar	AIT Austrian Inst. of Tech.
Matyus, Thomas	AIT Mobility
Seer, Stefan	Austrian Inst. of Tech.
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Zhang, Jiajie	Tsinghua Univ.
Li, Li	Tsinghua Univ.
Hu, Jianming	Tsinghua Univ.
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Ostadabbas, Sarah	Univ. of Texas at Dallas
Farshbaf, Masoud	Univ. of Texas at Dallas
Nourani, Mehrdad	Univ. of Texas at Dallas
Addepalli, Sateesh	Cisco Systems
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van Noort, Martijn	TNO
Jonkers, Eline	TNO
van den Haak, Paul	TNO
Ouboter, Tanneke	TNO
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Chair: Rife, Jason	Tufts Univ.
Co-Chair: Mortazavi, Ali	PATH, Univ. of California Berkeley
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Bouillet, Eric	IBM Res.
Calabrese, Francesco	IBM Res.
Verscheure, Olivier	IBM Dublin Res. Lab.
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Abdessemed, Foudil	Al Jouf Univ.
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Chiang, Chih-Yi	Telecommunication Lab. Chunghwa Telecom
Chuang, Ju-Yin	CHTTL
Chen, Jian-Kai	CHTTL
Hung, Chia-Chen	CHTTL
Chen, Wei-Hui	CHTTL
Lo, Kuen-Rong	CHTTL
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Campbell, Patrick	Univ. of Oklahoma
Junger, John	Univ. of Oklahoma
Havlicek, Joseph	Univ. of Oklahoma
Stevenson, Alan	Oklahoma Department of Transportation
Barnes, Ronald	Univ. of Oklahoma

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Schaefers, Lorenz	Daimler AG
Jebens, Agalya	Daimler AG

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Tachwali, Yahia	Univ. of Oklahoma
Refai, Hazem	The Univ. of Oklahoma

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Li, Changcheng	Res. Inst. of Highway, Ministry of Transport, China
Feng, Han	Res. Inst. of Highway, Ministry of Transport, China
Zhi, Xiaoling	Res. Inst. of Highway Ministry of Transport China
Zhao, Nale	Res. Inst. of Highway, Ministry of Transport, China

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Eidehall, Andreas	Volvo Car Corp.

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Chair: van Berkum, Eric	Univ. of Twente
Co-Chair: Vreeswijk, Jaap	Peek Traffic BV

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Knoop, Victor	Delft Univ. of Tech.
Li, Hao	Tongji Univ.
van Arem, Bart	Delft Univ. of Tech.

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Szarka III, John	Virginia Tech.
House, Leanna	Virginia Tech.
Rakha, Hesham A.	Virginia Tech.

11:40-12:00	WB8.3
<i>Car Drivers' Perception and Acceptance of Waiting Time at Signalized Intersections (I)</i> , pp. 451-456.	

van der Bijl, Bas	Grontmij BV
Vreeswijk, Jaap	Peek Traffic BV
Bie, Jing	Univ. of Twente
van Berkum, Eric	Univ. of Twente
12:00-12:20	WB8.4
<i>Travelers' Ability to Observe Changes in Traffic Intensities and Traffic Light Settings (I)</i> , pp. 457-462.	
Vreeswijk, Jaap	Peek Traffic BV
Do, Michael	Univ. of Twente
Middag, Wilco	Univ. of Twente
Martens, Marieke	TNO; Univ. of Twente
van Berkum, Eric	Univ. of Twente
van Arem, Bart	Delft Univ. of Tech.
WC1	301
Optimization and Control: Theory and Modeling 1 (Regular Session)	
Chair: Vreeswijk, Jaap	Peek Traffic BV
Co-Chair: Boussard, Clement	INRIA
14:00-14:20	WC1.1
<i>Algebraic Nonlinear Estimation and Flatness-Based Lateral/longitudinal Control for Automotive Vehicles</i> , pp. 463-468.	
Menhour, Lghani	Mathématiques et Systèmes CAOR
d'Andréa-Novel, Brigitte	Mines-ParisTech
Boussard, Clement	INRIA
Fliess, Michel	Pol.
Mounier, Hugues	LSS
14:20-14:40	WC1.2
<i>Functional-Architectural Diagnosability Analysis of Embedded Architecture</i> , pp. 469-476.	
Khelif, Manel	Univ. de Tech. de Compiegne
Shawky, M.	Univ. de Tech. de Compiegne
14:40-15:00	WC1.3
<i>Distributed Problems of Monitoring and Modern Approaches to Traffic Modeling</i> , pp. 477-481.	
Buslaev, Alexander	Moscow state automobile and road Tech. Univ.
Kozlov, Valery	Steklov mathematical Inst. RAS
Yashina, Marina	Moscow Tech. Univ. of communications and informatics
15:00-15:20	WC1.4
<i>On Determining and Applying Optimal Control Strategies for Optimal Delivery of Goods to a Network of Retailers Based on Inventory Levels</i> , pp. 482-489.	
Giglio, Davide	Univ. of Genova
15:20-15:40	WC1.5
<i>An Investigation of Proportionally Fair Ramp Metering</i> , pp. 490-495.	
Gibbens, Richard	Computer Lab. Univ. of Cambridge
Kelly, Frank	Statistical Lab. Univ. of Cambridge
WC2	302
Data Mining and Analysis 2 (Regular Session)	
Chair: Lu, Xiao-Yun	Univ. of California, Berkeley
14:00-14:20	WC2.1
<i>Daily Visitor Volume Forecasts for Expo 2010 Shanghai China</i> , pp. 496-500.	
Zhang, Yang	Shanghai Municipal Transportation Information Center
Wang, Mengling	East China Univ. of Science and Tech.
14:20-14:40	WC2.2
<i>Analysis of Network-Level Traffic States Using Locality Preservative Non-Negative Matrix Factorization</i> , pp. 501-506.	
Han, Yufei	MINES ParisTech
Moutarde, Fabien	Mines ParisTech

14:40-15:00	WC2.3
<i>Vehicle Identification from Inductive Loops. Application : Travel Time Estimation for a Mixed Population of Cars and Trucks</i> , pp. 507-512.	
Le Bastard, Cédric	CETE de l'Ouest
Guilbert, David	CETE de l'Ouest
Delepouille, Antoine	INPG
Boubezoul, Abderrahmane	IFSTTAR
Ieng, Sio-Song	IFSTTAR
Wang, Yide	IREENA Lab. Pol.
15:00-15:20	WC2.4
<i>Traffic Flow Characteristic Analysis at Intersections from Multi-Layer Spectral Clustering of Motion Patterns Using Raw Vehicle Trajectory</i> , pp. 513-519.	
Xin, Le	Beijing Univ. of Tech.
Yang, Deliang	Beijing Univ. of Tech.
Chen, Yangzhou	Beijing Univ. of Tech.
Li, Zhenlong	Beijing Univ. of Tech.
15:20-15:40	WC2.5
<i>A Stochastic Off-Line Offsets Tuning Procedure with Advanced Transportation Management System Data</i> , pp. 520-525.	
Li, Pengfei	Kentucky Transportation Center at Univ. of Kentucky
Zhu, Nana	AECOM (Beijing) Co.,Ltd
Furth, Peter	Northeastern Univ.
Guo, Xiucheng	School of Transportation, Southeast Univ.
WC3	307
Lidar, Vision and Radar Sensing 1 (Regular Session)	
Chair: Velastin, Sergio	Kingston Univ.
14:00-14:20	WC3.1
<i>Estimation of a Three-Dimensional Gaze Point and the Gaze Target from the Road Images</i> , pp. 526-531.	
Takagi, Kenji	Aichi Prefectural Univ.
Kawanaka, Haruki	Aichi Prefectural Univ.
Bhuiyan, Shoaib	Suzuka Univ. of Medical Science
Oguri, Koji	Aichi Prefectural Univ.
14:20-14:40	WC3.2
<i>Robust Horizon Finding Algorithm for Real-Time Autonomous Navigation Based on Monocular Vision</i> , pp. 532-537.	
Miranda Neto, Arthur	Univ. of Tech. of Compiègne
Victorino, Alessandro	Univ. de Tech. de Compiègne, Departement de Genie Informatique
Fantoni, Isabelle	Univ. of Tech. of Compiègne, CNRS
Zampieri, Douglas E	State Univ. of Campinas
14:40-15:00	WC3.3
<i>Fast Vision Based Ego-Motion Estimation from Stereo Sequences - a GPU Approach</i> , pp. 538-543.	
Szakats, Istvan	Tech. Univ. Cluj Napoca
Golban, Catalin	Tech. University of Cluj-Napoca
Nedevschi, Sergiu	Tech. Univ. of Cluj-Napoca
15:00-15:20	WC3.4
<i>Acquisition of Pedestrian Trajectory Using On-Board Monocular Camera</i> , pp. 544-549.	
Kim, HyungKwan	Univ. of Tokyo
Shibayama, Yuuki	The Univ. of Tokyo
Kamijo, Shunsuke	The Univ. of Tokyo
15:20-15:40	WC3.5
<i>Moving Object Trajectory Processing Based on Multi-Laser Sensing</i> , pp. 550-557. <u>Attachment</u>	
Zhao, Yipu	Peking Univ.
Zhao, Huijing	Peking Univ.
Sha, Jie	Peking Univ.
Zha, Hongbin	Peking Univ.

WC4	308
Statistical Modeling 1 (Regular Session)	
Chair: Arhin, Stephen	Howard Univ.
14:00-14:20	WC4.1
<i>Identification of Warning Signs in Truck Driving Behavior before Safety-Critical Events</i> , pp. 558-563.	
Abbas, Montasir	Virginia Tech.
Higgs, Bryan	Virginia Tech.
Medina, Alejandra	Virginia Tech. Transportation Inst.
Yang, David	Turner-Fairbank Highway Res. Center, FHWA
14:20-14:40	WC4.2
<i>Combining Traffic Safety Knowledge for Driving Risk Detection</i> , pp. 564-569.	
S. Siordia, Oscar	Univ. Rey Juan Carlos
Martín de Diego, Isaac	Univ. Rey Juan Carlos
Conde, Cristina	Univ. Rey Juan Carlos
Cabello, Enrique	Univ. Rey Juan Carlos
14:40-15:00	WC4.3
<i>A Probabilistic Model of a Set of Driving Decisions</i> , pp. 570-575.	
Kurt, Arda	The Ohio State Univ.
Ozguner, Umit	Ohio State Univ.
15:00-15:20	WC4.4
<i>Kernel-Based Modeling and Optimization for Density Estimation in Transportation Systems Using Floating Car Data</i> , pp. 576-581.	
Tabibiazar, Arash	Univ. of Waterloo
Basir, Otman	Univ. of Waterloo
15:20-15:40	WC4.5
<i>Driver/Vehicle State Estimation and Detection</i> , pp. 582-587.	
Gadepally, Vijay	The Ohio State Univ.
Kurt, Arda	The Ohio State Univ.
Krishnamurthy, Ashok	The Ohio State Univ.
Ozguner, Umit	The Ohio State Univ.
WC5	309
Simulation and Modeling 3 (Regular Session)	
Chair: Balakrishna, Ramachandran	Caliper Corp.
14:00-14:20	WC5.1
<i>Variable Time Discretization for a Time-Dependent Shortest Path Algorithm</i> , pp. 588-593.	
Tian, Ye	Univ. of Arizona
Chiu, Yi-Chang	Univ. of Arizona
Gao, Yang	Cornell Univ.
14:20-14:40	WC5.2
<i>Pre-Trip and En-Route Multi-Modal Travel Decisions Considering Habitual Travel Times under Unexpected Incident Scenarios</i> , pp. 594-599.	
Bustillos, Brenda	Univ. of Arizona
Chiu, Yi-Chang	Univ. of Arizona
Papayannoulis, Vassilis	Cambridge Systematics
14:40-15:00	WC5.3
<i>Driving Behavior Inference from Traffic Surveillance Data</i> , pp. 600-605.	
Zhou, Kai	Automation and Control Inst. Vienna Univ. of Tech.
Varadarajan, Karthik Mahesh	Automation and Control Inst. Vienna Univ. of Tech.
Vincze, Markus	Automation and Control Inst. Vienna Univ. of Tech.
Liu, Fuqiang	Tongji Univ.
15:00-15:20	WC5.4

Vehicular Sensor Networks in Congested Traffic: Linking STV Field Reconstruction and Communications Channel, pp. 606-613.

del Arco, Eduardo	Rey Juan Carlos Univ.
Morgado, Eduardo	Rey Juan Carlos Univ.
Ramiro-Bargueño, Julio	Rey Juan Carlos Univ.
Mora-Jimenez, Inmaculada	URJC
Caamaño, Antonio J.	Rey Juan Carlos Univ.

15:20-15:40

WC5.5

Modelling Cooperative Driving in Congestion Shockwaves on a Freeway Network, pp. 614-619.

Calvert, Simeon Craig	TNO
Van den Broek, Thijs Hendrikus Adrianus	TNO
van Noort, Martijn	TNO

WC6

310

Traffic Control 1 (Regular Session)

Chair: Ozbay, Kaan Rutgers, The State Univ. of NJ

14:00-14:20

WC6.1

Urban Traffic Flow Modeling in Addis Ababa, pp. 620-625.

Hellendoorn, Hans	Delft Univ. of Tech.
Zegeye, Solomon K.	Delft Univ. of Tech.
Zwarteveen, Jan Willem	Siemens AG

14:20-14:40

WC6.2

Real-Time Freeway Traffic State Prediction: A Particle Filter Approach, pp. 626-631.

Chen, Hao	Virginia Tech.
Rakha, Hesham A.	Virginia Tech.
Sadek, Shereef	Virginia Tech.

14:40-15:00

WC6.3

A Lagrangian State-Space Representation of a Macroscopic Traffic Flow Model, pp. 632-637.

Tchrakian, Tigran Tigran	IBM Dublin Res. Lab.
Verscheure, Olivier	IBM Dublin Res. Lab.

15:00-15:20

WC6.4

Combined Short Term Traffic Flow Forecast Model for Beijing Traffic Forecast System, pp. 638-643.

Dong, Shen	Civil Aviation Univ. of China
Sun, Liguang	Tsinghua Univ.
Chang, Tanghsien	National Taiwan Univ.
Lu, Huapu	Tsinghua Univ.

15:20-15:40

WC6.5

Transport Psychology Based Cognitive Architecture for Traffic Behavior Prediction, pp. 644-649.

Varadarajan, Karthik Mahesh	ACIN, TU Vienna
Zhou, Kai	Automation and Control Inst. Vienna Univ. of Technology
Vincze, Markus	ACIN, TU Vienna

WC7

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Automated Vehicle Operation 1 (Regular Session)

Chair: Shladover, Steven E. Univ. of California, Berkeley

14:00-14:20

WC7.1

Vehicle Automation in Cooperation with V2I and Nomadic Devices Communication, pp. 650-655.

Löper, Christian	German Aerospace Center (DLR)
Catalá-Prat, Álvaro	German Aerospace Center (DLR)
Gacnik, Jan	DLR-TS
Schomerus, Jan	German Aerospace Center
Köster, Frank	German Aerospace Center (DLR) Inst. of Transportation Systems

14:20-14:40

WC7.2

<i>Immediate Transitions for an Automated Bus Using Magnetic and DGPS Sensing Systems</i> , pp. 656-661.		
Huang, Jihua (Jill)		Univ. of California at Berkeley
Tan, Han-Shue		Univ. of California, Berkeley
14:40-15:00		WC7.3
<i>Planning and Nonlinear Adaptive Control for an Automated Overtaking Maneuver</i> , pp. 662-667.		
Petrov, Plamen		Tech. Univ. of Sofia
Nashashibi, Fawzi		INRIA
15:00-15:20		WC7.4
<i>An Approach to Driverless Vehicles in Highways</i> , pp. 668-673.		
Milanés, Vicente		AUTOPIA program, CAR
Onieva, Enrique		AUTOPIA program, CAR
Pérez, Joshué		AUTOPIA program, CAR
Godoy, Jorge		AUTOPIA program, CAR
Villagrà, Jorge		AUTOPIA program, CAR
15:20-15:40		WC7.5
<i>Combining Multiple Robot Behaviors for Complex Off-Road Missions</i> , pp. 674-680. Attachment		
Luettel, Thorsten		Univ. of the Bundeswehr Munich
Himmelsbach, Michael		Univ. of the Bundeswehr Munich
Manz, Michael		Univ. of the Bundeswehr Munich
Mueller, Andre		Univ. of the Bundeswehr Munich
von Hundelshausen, Felix		Univ. of the Bundeswehr Munich
Wuensche, Hans-Joachim		Univ. of the Bundeswehr Munich
WC8		402
Vehicle Dynamics and Intelligent Systems 1 (Special Session)		
Chair: Blundell, Mike V		Coventry Univ.
14:00-14:20		WC8.1
<i>A Network Assisted Vehicle for ADAS and ITS Testing (I)</i> , pp. 681-685.		
Edwards, Tim		MIRA Ltd
Moore, Jonathan		MIRA Ltd
Loukadaki, Maria		MIRA Ltd
Jaworski, Pawel		MIRA Ltd
14:20-14:40		WC8.2
<i>Application of the State-Dependent Nonlinear Model Predictive Control in Adaptive Cruise Control System (I)</i> , pp. 686-691.		
Shakouri, Payman		Kingston Univ.
Ordys, Andrzej		Kingston Univ.
14:40-15:00		WC8.3
<i>An MPC Approach to the Design of Motion Cueing Algorithms for Driving Simulators (I)</i> , pp. 692-697.		
Beghi, Alessandro		Univ. degli Studi di Padova
Bruschetta, Mattia		Univ. of Padova
Minen, Diego		VI Grade Italy
Baseggio, Mauro		Univ. of Padova
Maran, Fabio		Univ. of Padova
15:00-15:20		WC8.4
<i>Energy Storage and Powertrain Systems for Electric Vehicle (I)</i> , pp. 698-703.		
Vershinin, Yuri A		Coventry Univ.
Cuscov, Ivan		Coventry Univ.
Krishnamoorthy, Sumesh		Coventry Univ.
15:20-15:40		WC8.5
<i>A Study on Vehicle Dynamic Control Systems and Their Influence on Vehicle Collisions Improvement (I)</i> , pp. 704-709.		
Elkady, Mustafa		Univ. of Sunderland
Elmarakbi, Ahmed		Univ. of Sunderland
Crolla, Dave		Univ. of Sunderland

WD1	301
Optimization and Control: Theory and Modeling 2 (Regular Session)	
Chair: Blum, Jeremy	Pennsylvania State Univ.
16:00-16:20	WD1.1
<i>Selective Solution Pool Pruning in Multi-Agent Optimization Systems for the Transit Route Network Design Problem</i> , pp. 710-715.	
Blum, Jeremy	Pennsylvania State Univ.
Edsell, Scott	TE Connectivity
16:20-16:40	WD1.2
<i>Exploring Spatial Characteristics of Urban Transportation Networks</i> , pp. 716-721.	
Ji, Yuxuan	Ec. Pol. Fédérale de Lausanne
Geroliminis, Nikolas	Ec. Pol. Fédérale de Lausanne
16:40-17:00	WD1.3
<i>A Parallel Algorithm for Solving Time Dependent Multimodal Transport Problem</i> , pp. 722-727.	
Ayed, Hedi	CRP Henri Tudor
17:00-17:20	WD1.4
<i>Hierarchical Time-Dependent Shortest Path Algorithm for Dynamic Traffic Assignment Systems</i> , pp. 728-733.	
Gao, Yang	Cornell Univ.
Chiu, Yi-Chang	Univ. of Arizona
17:20-17:40	WD1.5
<i>A Receding Horizon Approach to String Stable Cooperative Adaptive Cruise Control</i> , pp. 734-739.	
Kianfar, Roozbeh	Chalmers Univ. of Tech.
Falcone, Paolo	Chalmers Univ. of Tech.
Fredriksson, Jonas	Chalmers Univ. of Tech.
WD2	302
Data Mining and Analysis 3 (Regular Session)	
Chair: Caamano, Antonio	Rey Juan Carlos Univ.
16:00-16:20	WD2.1
<i>Multivariate Spatial Clustering of Traffic Accidents for Local Profiling of Risk Factors</i> , pp. 740-745.	
Figuera, Carlos	URJC
Lillo, José-María	Rey Juan Carlos Univ.
Mora-Jimenez, Inmaculada	URJC
Rojo-Álvarez, José-Luis	Rey Juan Carlos Univ.
Caamano, Antonio	Rey Juan Carlos Univ.
16:20-16:40	WD2.2
<i>Evaluation of Velocity Fields Via Sparse Bus Probe Data in Urban Areas</i> , pp. 746-753.	
Bejan, Andrei	Univ. of Cambridge
Gibbens, Richard	Univ. of Cambridge
16:40-17:00	WD2.3
<i>Probabilistic Neural Networks for the Identification of Traffic State</i> , pp. 754-759.	
Shuyun, Niu	National ITS Res. Center, Res. Inst. of Highway Mini
Hao, Liu	National ITS Res. Center, Res. Inst. of Highway Mini
17:00-17:20	WD2.4
<i>Two-Stage Vehicle Leaving and Entering Detection for Ground Truth Generation</i> , pp. 760-764.	
Wang, Shen-Zheng	Service Systems Tech. Center, Industrial Tech. Res.
Zhao, San-Lung	Service Systems Tech. Center, Industrial Tech. Res.
Lan, Kung-Ming	Service Systems Tech. Center, Industrial Tech. Res.
Lee, Hsi-Jian	Department of Medical Informatics, Tzu Chi Univ. Taiwan
17:20-17:40	WD2.5
<i>A Statistical Approach for Integration of Soft Mobility and Regular Public Transports</i> , pp. 765-770.	
Henriques, Norberto	Centre for Informatics and Systems of the Univ. of Coimbra

WD3		307
Lidar, Vision and Radar Sensing 2 (Regular Session)		
Chair: Kamijo, Shunsuke		The Univ. of Tokyo
Co-Chair: Refai, Hazem		The Univ. of Oklahoma
16:00-16:20		WD3.1
<i>Mobile Traffic Surveillance System for Dynamic Roadway and Vehicle Traffic Data Integration</i> , pp. 771-776.		
Cao, Meng		Univ. of California, Riverside
Zhu, Weihua		Univ. of California-Riverside
Barth, Matthew		Univ. of California-Riverside
16:20-16:40		WD3.2
<i>Computer Vision at the Hyundai Autonomous Challenge</i> , pp. 777-783.		
Cerri, Pietro		Univ. of Parma
Soprani, Giacomo		Univ. of Parma
Zani, Paolo		Univ. degli Studi di Parma
Choi, Jaewoong		Seoul National Univ.
Lee, Junyung		Seoul National Univ.
Kim, Dongwook		Seoul National Univ.
Yi, Kyongsu		Seoul National Univ.
Broggi, Alberto		Univ. of Parma
16:40-17:00		WD3.3
<i>Real-Time Semi-Global Matching Using Segmentation and Plane Fitting for Improved Accuracy on the GPU</i> , pp. 784-790.		
Pantilie, Cosmin		Tech. Univ. of Cluj-Napoca
Nedevschi, Sergiu		Tech. Univ. of Cluj-Napoca
17:00-17:20		WD3.4
<i>Tracking Multiple Objects in Urban Traffic Environments Using Dense Stereo and Optical Flow</i> , pp. 791-796.		
Bota, Silviu		Tech. Univ. of Cluj-Napoca
Nedevschi, Sergiu		Tech. Univ. of Cluj-Napoca
17:20-17:40		WD3.5
<i>3D Triangulation Based Extrinsic Calibration between a Stereo Vision System and a LIDAR</i> , pp. 797-802.		
Li, You		Univ. de Tech. de Belfort-Montbeliard
Ruichek, Yassine		Univ. of Tech. of Belfort-Montbeliard
Cappelle, Cindy		SeT - Lab. Systèmes et Transports
WD4		308
Statistical Modeling 2 (Regular Session)		
Chair: Wada, Takahiro		Kagawa Univ.
16:00-16:20		WD4.1
<i>Toward Cost-Efficient Integration of Telematic Systems Using K-Spanning Tree and Clustering Algorithms</i> , pp. 803-808.		
Mbiydznyuy, Gideon		Blekinge Inst. of Tech.
Persson, Jan		Blekinge Inst. of Tech.
Davidsson, Paul		Blekinge Inst. of Tehcnology
16:20-16:40		WD4.2
<i>Arterial Roadway Energy/Emissions Estimation Using Modal-Based Trajectory Reconstruction</i> , pp. 809-814.		
Yang, Qichi		Univ. of California-Riverside
Boriboonsomsin, Kanok		Univ. of California-Riverside
Barth, Matthew		Univ. of California-Riverside
16:40-17:00		WD4.3
<i>Optimal Decomposition of Travel Times Measured by Probe Vehicles Using a Statistical Traffic Flow Model</i> , pp. 815-821.		
Hofleitner, Aude		Univ. of California, Berkeley
Bayen, Alexandre		Univ. of California, Berkeley

17:00-17:20	WD4.4
<i>An Analysis on Traffic Flow Characteristics and Lane Changing Behaviors in Beijing Urban Expressway Bottlenecks</i> , pp. 822-827.	
Xu, Runmin	Tsinghua Univ.
Huang, Ling	The High Tech. Res. and Development Center, The Ministr
Shengchao, Yin	Tsinghua
Yao, Danya	Tsinghua Univ.
Zhang, Haizheng	Tsinghua Univ.
Peng, Lihui	Tsinghua Univ.
Su, Yuelong	Tsinghua Univ.

17:20-17:40	WD4.5
<i>Towards a Realistic Description of Traffic Flow Based on Cellular Automata</i> , pp. 828-833.	
Larraga, Maria Elena	Univ. Nacional Autonoma de Mexico
Alvarez-Icaza, Luis	Univ. Nacional Autonoma de Mexico

WD5	309
Simulation and Modeling 4 (Regular Session)	
Chair: Dedes, George	DGNSS Solutions

16:00-16:20	WD5.1
<i>Analysis of Hydrogen Station Network Using Geographic Information Systems</i> , pp. 834-839.	
Fang, Fang Clara	Univ. of Hartford
Torres, Neftali	The Metropolitan District (MDC), Connecticut

16:20-16:40	WD5.2
<i>Integrated GNSS/INU, Vehicle Dynamics, and Microscopic Traffic Flow Simulator for Automotive Safety</i> , pp. 840-845.	
Dedes, George	DGNSS Solutions
Grejner-Brzezinska, Dorota	The Ohio State Univ.
Guenther, Dennis	The Ohio State Univ.
Heydinger, Gary Joseph	SEA, Ltd.
Park, Byungkyu (Brian)	Univ. of Virginia
Toth, Charles	The Ohio State Univ.
Mouskos, Kyriakos	CUNY / The City Coll. of New York

16:40-17:00	WD5.3
<i>A Simulation Framework for Supporting Design and Real-Time Decisional Phases in Railway Systems</i> , pp. 846-851.	
Quaglietta, Egidio	Univ. of Naples "Federico II"
D'Acierno, Luca	'Federico II' Univ. of Naples, Italy
Punzo, Vincenzo	Univ. of Naples Federico II
Nardone, Roberto	Univ. of Naples "Federico II"
Mazzocca, Nicola	Dipartimento di Informatica e Sistemistica (DIS), Univ. of

17:00-17:20	WD5.4
<i>Micro-Simulation Study on Capacity of Roundabout</i> , pp. 852-857.	
Li, Haorui	School of Traffic and Transportation, Beijing JiaotongUniversity
Li, Jiabin	School of Traffic and Transportation, Beijing JiaotongUniversity
Yang, Zhuo	School of Traffic and Transportation, BeijingJiaotongUniversity,
Wu, Jiawei	Beijing Jiaotong Univ. Beijing, China
Chen, Xumei	Beijing Jiaotong Univ.

17:20-17:40	WD5.5
<i>Parking Guidance - Modelling, Simulation and Impact Assessment</i> , pp. 858-864.	
Jonkers, Eline	TNO
van Noort, Martijn	TNO
van der Veen, Johan	TNO

WD6	310
Traffic Control 2 (Regular Session)	

Chair: Li, Pengfei	Kentucky Transportation Center at Univ. of Kentucky
Co-Chair: Zhang, Liping	Univ. of California, Berkeley
16:00-16:20	WD6.1
<i>A Non Dynamic Model for ITS Assessment</i> , pp. 865-872.	
Aron Maurice, Aron Maurice	Univ. Paris-Est, IFSTTAR, GRETTIA
Seidowsky Régine, Seidowsky Régine	Univ. Paris-Est, IFSTTAR, GRETTIA
Cohen Simon, Cohen Simon	Univ. Paris-Est, IFSTTAR, GRETTIA
16:20-16:40	WD6.2
<i>Identification of Warning Signs in Car Driving Behavior before Safety-Critical Events</i> , pp. 873-878.	
Abbas, Montasir	Virginia Tech.
Higgs, Bryan	Virginia Tech.
Medina, Alejandra	Virginia Tech. Univ.
Yang, David	Turner-Fairbank Highway Res. Center, FHWA
16:40-17:00	WD6.3
<i>Platoon-Based Self-Scheduling for Real-Time Traffic Signal Control</i> , pp. 879-884.	
Xie, Xiao-Feng	Carnegie Mellon Univ.
Barlow, Gregory J.	Carnegie Mellon Univ.
Smith, Stephen F.	Carnegie Mellon Univ.
Rubinstein, Zachary B.	Carnegie Mellon Univ.
17:00-17:20	WD6.4
<i>Multi-Class Ramp Metering: Concepts and Initial Results</i> , pp. 885-889.	
Schreiter, Thomas	Delft Univ. of Tech.
van Lint, Hans	Delft Univ. of Tech.
Hoogendoorn, Serge	Delft Univ. of Tech.
17:20-17:40	WD6.5
<i>Dealing with Continuous-State Reinforcement Learning for Intelligent Control of Traffic Signals</i> , pp. 890-895.	
Heinen, Milton Roberto	UFRGS
Bazzan, Ana Lucia C.	Federal Univ. of Rio Grande do Sul
Engel, Paulo Martins	UFRGS
WD7	311
Automated Vehicle Operation 2 (Regular Session)	
Chair: Mammari, Said	Univ. EVRY
Co-Chair: Alessandrini, Adriano	Univ. of Rome
16:00-16:20	WD7.1
<i>Advanced Transport Systems Showcased in La Rochelle</i> , pp. 896-900.	
Alessandrini, Adriano	Univ. of Rome "La Sapienza"
Parent, Michel	INRIA
Holguin, Carlos	INRIA
16:20-16:40	WD7.2
<i>MegProp System for City Rail-Roads</i> , pp. 901-906.	
Singh, Tejinder	Infosys Tech. Limited
16:40-17:00	WD7.3
<i>Vehicle Lane Keeping Control Based on Piecewise Affine Regions</i> , pp. 907-912.	
Benine-Neto, André	IFSTTAR
Scalzi, Stefano	Univ. of Rome Tor Vergata
Mammari, Said	Univ. EVRY
17:00-17:20	WD7.4
<i>A Frame Work of Fault Detection Algorithm for Intelligent Vehicle by Using Real Experimental Data</i> , pp. 913-918.	
Hashimoto, Naohisa	National Inst. of AIST
Ozguner, Umit	Ohio State Univ.
Sawant, Neil	Ohio State Univ.
Yokozuka, Masashi	AIST

Kato, Shin	National Inst. of AIST
Matsumoto, Osamu	AIST
Tsugawa, Sadayuki	Meijo Univ.
17:20-17:40	WD7.5
<i>Stadtpilot: First Fully Autonomous Test Drives in Urban Traffic</i> , pp. 919-924.	
Nothdurft, Tobias	Tech. Univ. Braunschweig
Hecker, Peter	Tech. Univ. Braunschweig
Ohl, Sebastian	Tech. Univ. Braunschweig
Saust, Falko	Tech. Univ. Braunschweig
Maurer, Markus	Tech. Univ. Braunschweig
Reschka, Andreas	Univ. Hildesheim
Böhmer, Jürgen Rüdiger	Univ. Hildesheim
WD8	402
Vehicle Dynamics and Intelligent Systems 2 (Special Session)	
Chair: Blundell, Mike V	Coventry Univ.
16:00-16:20	WD8.1
<i>Stereo Vision Based Full-Range Object Detection and Tracking (I)</i> , pp. 925-930.	
Shen, Truman	Takata Holdings Inc
Schamp, Gregory	Takata Holdings Inc.
Coopriider, Troy	Takata Holdings Inc.
Ibrahim, Farooq	Takata
16:20-16:40	WD8.2
<i>Cloud Computing Concept for Intelligent Transportation Systems (I)</i> , pp. 931-936.	
Jaworski, Pawel	MIRA Ltd
Edwards, Tim	MIRA Ltd
Moore, Jonathan	MIRA Ltd
Burnham, Keith	Coventry Univ.
16:40-17:00	WD8.3
<i>Semantic Agent-Based Controls for Service Oriented Architecture (SOA) Enabled Intelligent Transportation Systems (ITS) (I)</i> , pp. 937-942.	
Kamran, Shoaib	Coventry Univ.
Haas, Olivier	Coventry Univ.
17:00-17:20	WD8.4
<i>Ambulance Response Modeling Using a Modified Speed-Density Exponential Model (I)</i> , pp. 943-948.	
Haas, Olivier	Coventry Univ.

Technical Program for Thursday October 6, 2011

TA1	301
Advanced Vehicle Safety Systems 1 (Regular Session)	
Chair: Sjöberg, Jonas	Chalmers Univ.
Co-Chair: Bullough, John	Rensselaer Pol. Inst.
11:00-11:20	TA1.1
<i>An Investigation into Unified Chassis Control for Agility, Maneuverability and Lateral Stability</i> , pp. 949-955.	
Cho, Wanki	Seoul National Univ.
Yi, Kyongsu	Seoul National Univ.
Her, Hyundong	Seoul National Univ.
11:20-11:40	TA1.2
<i>Fuzzy Takagi-Sugeno LQ Controller for a Shared Control of Vehicle</i> , pp. 956-961.	
Soualmi, Boussaad	LAMIH, Valenciennes Univ.
Sentouh, Chouki	LAMIH, Valenciennes Univ.
Popieul, Jean-Christophe	LAMIH, Valenciennes Univ.
Debernard, Serge	LAMIH, Valenciennes Univ.
11:40-12:00	TA1.3
<i>Model-Based Sensor Fault Detection Algorithm Design for Electro-Mechanical Brake</i> , pp. 962-967.	
Hwang, Woohyun	Univ. of Hanyang
Han, Kwangjin	Univ. of Hanyang
Huh, Kunsoo	Univ. of Hanyang
Jung, Jihyun	Mando Co.
Kim, Myungjune	Mando Co.
12:00-12:20	TA1.4
<i>Intelligent Control of Roadway Lighting to Optimize Safety Benefits Per Overall Costs</i> , pp. 968-972.	
Bullough, John	Rensselaer Pol. Inst.
Rea, Mark	Rensselaer Pol. Inst.
12:20-12:40	TA1.5
<i>An Emergency Evasive Maneuver Algorithm for Vehicles</i> , pp. 973-978.	
Soubakhsh, Damoon	The George Washington Univ.
Eskandarian, Azim	The George Washington Univ.
Moreau, Johann	the george washington Univ.
TA2	302
Intelligent Infrastructure (Regular Session)	
Chair: Miller, Jeffrey	Univ. of Alaska, Anchorage
Co-Chair: Miyajima, Chiyomi	Nagoya Univ.
11:00-11:20	TA2.1
<i>A New "Smart Parking" System Based on Optimal Resource Allocation and Reservations</i> , pp. 979-984. Attachment	
Geng, Yanfeng	Boston Univ.
Cassandras, Christos	Boston Univ.
11:20-11:40	TA2.2
<i>Comparing the GPS Capabilities of the Samsung Galaxy S Motorola Droid and the Apple Iphone for Vehicle Tracking Using FreeSim_Mobile</i> , pp. 985-990.	
Miller, Jeffrey	Univ. of Alaska, Anchorage
Menard, Timothy	Univ. of Alaska, Anchorage
Nowak, Michael	Northern Illinois Univ.
Norris, David	Northern Illinois Univ.
11:40-12:00	TA2.3
<i>Joint Maximum-Likelihood Estimation of Speed and Acceleration from Existing Roadway Vehicle Detectors</i> , pp. 991-996.	
Ernst, Joseph M.	Purdue Univ.
Krogmeier, James V.	Purdue Univ.

Bullock, Darcy	Purdue Univ.
12:00-12:20	TA2.4
<i>Arterial Travel Time Estimation Based on Vehicle Re-Identification Using Magnetic Sensors: Performance Analysis</i> , pp. 997-1002.	
Sanchez, Rene O	Univ. of California, Berkeley
Flores, Christopher	Sensys Networks, Inc.
Horowitz, Roberto	Univ. of California at Berkeley
Rajagopal, Ram	Department of Civil and Environmental Engineering, Stanford Univ.
Varaiya, Pravin	Sensys Networks, Inc.
12:20-12:40	TA2.5
<i>Robust Traffic Signs Detection by Means of Vision and V2I Communications</i> , pp. 1003-1008.	
García-Garrido, Miguel Ángel	Univ. of Alcalá
Ocaña, Manuel	Univ. of Alcalá
Fernandez Llorca, David	Univ. of Alcalá
Sotelo Vázquez, Miguel Ángel	Univ. of Alcalá
Arroyo Carreras, Estefania	Univ. of Alcalá
Llamazares Llamazares, Angel	Univ. of Alcalá
TA3	307
Imaging and Image Analysis 3 (Regular Session)	
Chair: Cabello, Enrique	Univ. Rey Juan Carlos
11:00-11:20	TA3.1
<i>Illumination Invariant Road Detection Based on Learning Method</i> , pp. 1009-1014.	
Kim, Bongjoe	Yonsei Univ.
Son, Jongin	Yonsei Univ.
Sohn, Kwanghoon	Yonsei Univ.
11:20-11:40	TA3.2
<i>Feature-Based Level of Service Classification for Traffic Surveillance</i> , pp. 1015-1020.	
Pletzer, Felix	Alpen-Adria Univ. Klagenfurt
Tusch, Roland	Alpen-Adria Univ. Klagenfurt
Boeszoermenyi, Laszlo	Alpen-Adria Univ. Klagenfurt
Rinner, Bernhard	Alpen-Adria Univ. Klagenfurt
Sidla, Oliver	SLR Engineering OG
Mariacher, Thomas	ASFINAG Maut Service GmbH
Harrer, Manfred	ASFINAG Maut Service GmbH
11:40-12:00	TA3.3
<i>Low Complexity Algorithm for the Extraction of Vehicular Traffic Variables</i> , pp. 1021-1026.	
Calderon Bocanegra, Francisco Carlos	Pontificia Univ. Javeriana
Forero Guzman, Alejandro	Pontificia Univ. Javeriana
12:00-12:20	TA3.4
<i>Vehicle Localization in Urban Environments Using Feature Maps and Aerial Images</i> , pp. 1027-1032.	
Mattern, Norman	Chemnitz Univ. of Tech.
Wanielik, Gerd	Chemnitz Univ. of Tech.
12:20-12:40	TA3.5
<i>Automatic Driving Risk Detection Based on Hands Activity</i> , pp. 1033-1038.	
Martín de Diego, Isaac	Univ. Rey Juan Carlos
Crespo, Raúl	Univ. Rey Juan Carlos
S. Siordia, Oscar	Univ. Rey Juan Carlos
Conde, Cristina	Univ. Rey Juan Carlos
Cabello, Enrique	Univ. Rey Juan Carlos
TA4	308
Optimization and Control: Theory and Modeling 3 (Regular Session)	

Chair: Dong, Jing	Oak Ridge National Lab.
Co-Chair: Stanculescu, Bogdan	Ec. des Mines de Paris (ParisTech)
11:00-11:20	TA4.1
<i>Real Time Route Guidance with Correlated Link Cost</i> , pp. 1039-1044.	
Dong, Wei	Swinburne Univ. of Tech.
Vu, Hai L.	Swinburne Univ. of Tech.
Vo, Quoc Bao	Swinburne Univ. of Tech.
11:20-11:40	TA4.2
<i>Neural Network Based Online Traffic Signal Controller Design with Reinforcement Training</i> , pp. 1045-1050.	
Dai, Yujie	Inst. of Automation, Chinese Acad. of Sciences
Hu, Jinzong	Changchun Inst. of Optics, Fine Mechanics and Physics, Chine
Zhao, Dongbin	Inst. of Automation, Chinese Acad. of Sciences
Zhu, Fenghua	Inst. of Automation, Chinese Acad. of Sciences
11:40-12:00	TA4.3
<i>Multi-Scale Integration of Petri Net Modeling and Software-In-The-Loop Simulation for Assessment of Operational Capabilities in the Advanced Transportation Controller</i> , pp. 1051-1056.	
Mladenovic, Milos	Virginia Pol. Inst. and State Univ.
Abbas, Montasir	Virginia Tech.
12:00-12:20	TA4.4
<i>A Single-Dependent Agent Approach for Stochastic Time-Dependent Truck Dispatching in Open-Pit Mining</i> , pp. 1057-1062.	
Sousa Bastos, Guilherme	Federal Univ. of Itajuba
de Souza, Luiz Edival	Federal Univ. of Itajuba
Ramos, Fabio	Australian Centre for Field Robotics
Costa Ribeiro, Carlos Henrique	Aeronautics Inst. of Tech.
12:20-12:40	TA4.5
<i>A New Concept of Brake System for ITS Platoon Heavy Duty Trucks and Its Pre-Evaluation</i> , pp. 1063-1068.	
Ishizaka, Hiroyuki	Japan Automobile Res. Inst.
Suzuki, Yoshitada	Japan Automobile Res. Inst.
Suda, Yoshihiro	The Univ. of Tokyo
Aoki, Keiji	Japan Automobile Res. Inst.
Nakano, Kimihiko	The Univ. of Tokyo
Aki, Masahiko	The Univ. of Tokyo
TA5	309
Travel Behaviour under ITS (Regular Session)	
Chair: Krogmeier, James V.	Purdue Univ.
11:00-11:20	TA5.1
<i>Identifying Human Spatio-Temporal Activity Patterns from Mobile-Phone Traces</i> , pp. 1069-1074.	
Di Lorenzo, Giusy	IBM Res.
Calabrese, Francesco	IBM Res.
11:20-11:40	TA5.2
<i>Evaluation of Privacy Preserving Algorithms Using Traffic Knowledge Based Adversary Models</i> , pp. 1075-1082.	
Sun, Zhanbo	Rensselaer Pol. Inst.
Zan, Bin	WINLAB, Rutgers Univ.
Ban, Jeff	Rensselaer Pol. Inst.
Gruteser, Marco	Rutgers Univ.
Hao, Peng	Rensselaer Pol. Inst.
11:40-12:00	TA5.3
<i>Comparison of Real-Time Travel Time Estimation Using Two Distinct Approaches: Universal Kriging and Mathematical Programming</i> , pp. 1083-1088.	
Ozbay, Kaan	Rutgers, The State Univ. of NJ
Yildirimoglu, Mehmet	Rutges Univ.
12:00-12:20	TA5.4

Using Transit or Municipal Vehicles As Moving Observer Platforms for Large Scale Collection of Traffic and Transportation System Information, pp. 1089-1095.

Redmill, Keith	The Ohio State Univ.
Coifman, Benjamin	The Ohio State Univ.
McCord, Mark	The Ohio State Univ.
Mishalani, Rabi	The Ohio State Univ.

12:20-12:40 TA5.5

An Experimental Study on Learning Effects on Mode Choice Behavior in Dynamic Park and Ride, pp. 1096-1102.

Kasai, Makoto	Tokyo Univ. of Science
Uesugi, Ryo	East Nippon Expressway Company Limited
Takasawa, Shohei	Tokyo Univ. of Science
Terabe, Shintaro	Tokyo Univ. of Science

TA6 310

Traffic Control 3 (Regular Session)

Chair: Bhatnagar, Shalabh Indian Inst. of Science

11:00-11:20 TA6.1

Video Processing Techniques for Traffic Flow Monitoring: A Survey, pp. 1103-1108.

Tian, Bin	Insitute of Automation, Chinese Acad. of Sciences
Yao, Qingming	Jiangsu China Sciences Intelligent Engineering Co. Ltd.
Gu, Yuan	Inst. of Automation, Chinese Acad. of Sciences
Wang, Kunfeng	Inst. of Automation, Chinese Acad. of Sciences
Li, Ye	Inst. of Automation, Chinese Acad. of Sciences

11:20-11:40 TA6.2

Sliding Mode Control of Hyperbolic PDE System with Parametric Variations, pp. 1109-1113.

Wadoo, Sabiha	New York Inst. of Tech.
Kachroo, Kachroo	Univ. of Nevada, Las Vegas
Shlayan, Neveen	Univ. of Nevada, Las Vegas

11:40-12:00 TA6.3

Does Traffic Metering Improve Network Performance Efficiency?, pp. 1114-1119.

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

12:00-12:20 TA6.4

Service Level-Oriented Route Guidance in Road Traffic Networks, pp. 1120-1125.

Landman, Ramon	Delft Univ. of Tech.
Hegyi, Andreas	Delft Univ. of Tech.
Hoogendoorn, Serge	Delft Univ. of Tech.

12:20-12:40 TA6.5

A Simple Forward-Backward Procedure for Real-Time Signal Timing Adjustment on Oversaturated Arterial Networks, pp. 1126-1131.

Hu, Heng	Univ. of Minnesota
Wu, Xinkai	Univ. of Minnesota
Liu, Henry X.	Univ. of Minnesota

TA7 311

ITS Architecture and Standards (Regular Session)

Chair: Verma, Rajeev Univ. of Michigan, Ann Arbor
 Co-Chair: Zoghiami, Nesrine Ec. Centrale de Lille

11:00-11:20 TA7.1

A Mobile Sensing Architecture for Massive Urban Scanning, pp. 1132-1137.

Rodrigues, João	Inst. de Telecomunicações
Vieira, Fausto	Inst. de Telecomunicações, Faculdade de Engenharia daUnivers
Aguiar, Ana	Inst. de Telecomunicações (IT), Faculty of Engineering Univ.

Barros, João Cunha, João Paulo Silva	Univ. of Porto Dep. of Electronics, Telecom. and Informatics/IEETA, Univ.
11:20-11:40	TA7.2
<i>Development of Braking Systems for Platoon-Driving - Development of Energy-Saving ITS Technologies -</i> , pp. 1138-1143.	
Suzuki, Yoshitada	Japan Automobile Res. Inst.
Ishizaka, Hiroyuki	Japan Automobile Res. Inst.
Aki, Masahiko	THE Univ. OF TOKYO
Nakano, Kimihiko	THE Univ. OF TOKYO
Suda, Yoshihiro	THE Univ. OF TOKYO
11:40-12:00	TA7.3
<i>Towards a Safer Development of Driver Assistance Systems by Applying Requirements-Based Methods</i> , pp. 1144-1149.	
Jost, Henning	Univ. of Oldenburg
Koehler, Silke	German Aerospace Center
Koester, Frank	German Aerospace Center (DLR) Inst. of TransportationSystems
12:00-12:20	TA7.4
<i>Distributed Graphs for Solving Co-Modal Transport Problems</i> , pp. 1150-1155.	
Jeribi, Karama	Lab. d'Automatique, Génie InformatiqueetSignal–LAGIS FRE
Mejri, Hinda	Faculté de Droit et des Sciences Ec. et Pol. Sou
Zgaya, Hayfa	Ec. Centrale de Lille (Ec.
Hammadi, Slim	Ec. centrale de Lille
12:20-12:40	TA7.5
<i>A Maritime ITS Architecture for E-Navigation and E-Maritime: Supporting Environment Friendly Ship Transport</i> , pp. 1156-1161.	
Rødseth, Ørnulf Jan	MARINTEK
TA8	413
Correctness by Verification and Design (Special Session)	
Chair: Pavlic, Theodore	The Ohio State Univ.
11:00-11:20	TA8.1
<i>Set-Based Computation of Vehicle Behaviors for the Online Verification of Autonomous Vehicles (I)</i> , pp. 1162-1167.	
Althoff, Matthias	Carnegie Mellon Univ.
Dolan, John	Carnegie Mellon Univ.
11:20-11:40	TA8.2
<i>Synthesis of Provably Correct Controllers for Autonomous Vehicles in Urban Environments (I)</i> , pp. 1168-1173.	
Wongpiromsarn, Tichakorn	Singapore-MIT Alliance for Res. & Tech.
Karaman, Sertac	Massachusetts Inst. of Tech.
Frazzoli, Emilio	Massachusetts Inst. of Tech.
11:40-12:00	TA8.3
<i>Control of Hidden Mode Hybrid Systems: Algorithm Termination (I)</i> , pp. 1174-1180.	
Verma, Rajeev	Univ. of Michigan, Ann Arbor
Del Vecchio, Domitilla	MIT
12:00-12:20	TA8.4
<i>Safe Intersections: At the Crossing of Hybrid Systems and Verification (I)</i> , pp. 1181-1186.	
Loos, Sarah M.	Carnegie Mellon Univ.
Platzer, André	Carnegie Mellon Univ.
12:20-12:40	TA8.5
<i>AutoPlug: An Automotive Test-Bed for Electronic Controller Unit Testing and Verification (I)</i> , pp. 1187-1192.	
Drolia, Utsav	Univ. of Pennsylvania
Wang, Zhenyan	Univ. of Pennsylvania
Pant, Yash	Univ. of Pennsylvania
Mangharam, Rahul	Univ. of Pennsylvania

Advanced Vehicle Safety Systems 2 (Regular Session)

Chair: Wakita, Toshihiro TOYOTA Central R&D Lab. INC
 Co-Chair: Soudbakhsh, Damoon The George Washington Univ.

14:00-14:20 TB1.1

Design of Active Roll Control System and Integrated Chassis Control for Hybrid 4WD Vehicles, pp. 1193-1198.

Yim, Seongjin Advanced Inst. of Convergence Tech.
 Yi, Kyongsu Seoul National Univ.

14:20-14:40 TB1.2

Drowsiness Monitoring Based on Driver and Driving Data Fusion, pp. 1199-1204.

García Daza, Iván Univ. of Alcala
 Hernandez Parra, Noelia Univ. of Alcalá
 Bergasa, Luis M. Univ. of Alcala
 Parra Alonso, Ignacio Univ. de Alcala
 Gavilán Velasco, Miguel Univ. of Alcala
 Quintero Mínguez, Raúl Univ. of Alcalá
 Fernandez Llorca, David Univ. of Alcala
 Sotelo Vázquez, Miguel Ángel Univ. of Alcalá
 Yebes Torres, Jose Javier Univ. of Alcalá

14:40-15:00 TB1.3

Vehicle Stability Control Using Individual Brake Force Based on Tire Force Information, pp. 1205-1210.

Her, Hyundong Seoul National Univ.
 Cho, Wanki Seoul National Univ.
 Yi, Kyongsu Seoul National Univ.

15:00-15:20 TB1.4

Criticality Estimation of Pre-Crash Scenarios, pp. 1211-1216.

Muehlfeld, Florian Ingolstadt Univ. of Applied Sciences
 Ertlmeier, Rudolf Inst. of Applied Res. Ingolstadt Univ. of Applied
 Happe, Johannes Continental
 Brandmeier, Thomas Ingolstadt Univ. of Applied Sciences

15:20-15:40 TB1.5

Classification of Positive and Negative Emotion Evoked by Traffic Jam Based on Electrocardiogram(ecg) and Pulse Wave, pp. 1217-1222.

Kato, Tomokazu Aichi Prefectural Univ.
 Bhuiyan, Shoaib Suzuka Univ. of Medical Science
 Oguri, Koji Aichi Prefectural Univ.
 Kawanaka, Haruki Aichi Prefectural Univ.

TB2

302

Driver Assistance Systems 1 (Regular Session)

Chair: Ranganathan, Anand IBM TJ Watson Res. Center

14:00-14:20 TB2.1

Development of a Combined Steering Torque Overlay and Differential Braking Strategy for Unintended Lane Departure Avoidance, pp. 1223-1230.

Lee, Junyung Seoul National Univ.
 Yi, Kyongsu Seoul National Univ.

14:20-14:40 TB2.2

An Investigation on Driver Trajectory Planning Behaviors Based on Double Lane Change Vehicle Test Data, pp. 1231-1236.

Huang, Jihua (Jill) Univ. of California, Berkeley
 Tan, Han-Shue Univ. of California at Berkeley
 Bu, Fanping Univ. of California at Berkeley
 Chen, Shih-Ken General Motors Company

14:40-15:00 TB2.3

Situation-Specific Learning for Ego-Vehicle Behavior Prediction Systems, pp. 1237-1242.

Garcia Ortiz, Michael Bielefeld Univ.

Schmuedderich, Jens	Honda Res. Inst. Europe GmbH
Kummert, Franz	Bielefeld Univ.
Geperth, Alexander	Honda Res. Inst. Europe GmbH
15:00-15:20	TB2.4
<i>A Real-Time Lane Departure Warning System Based on FPGA</i> , pp. 1243-1248.	
Shang, Erke	National Univ. of Defense Tech.
Li, Jian	National Univ. of Defense Tech.
An, Xiangjing	National Univ. of Defense Tech.
He, Hangen	National Univ. of Defense Tech.
15:20-15:40	TB2.5
<i>Combining Monocular and Stereo-Vision for Real-Time Vehicle Ranging and Tracking on Multilane Highways</i> , pp. 1249-1254.	
Sivaraman, Sayanan	Univ. of California San Diego
Trivedi, Mohan M.	Univ. of California at San Diego
TB3	307
Imaging and Image Analysis 4 (Regular Session)	
Chair: Ocaña, Manuel	Univ. of Alcala
14:00-14:20	TB3.1
<i>Real-Time Vehicle Detection and Tracking Using Stereo Vision and Multi-View AdaBoost</i> , pp. 1255-1260.	
Kowsari, Taha	The Univ. of Western Ontario
Beauchemin, Steven	The Univ. of Western Ontario
Cho, Ji	The Univ. of Western Ontario
14:20-14:40	TB3.2
<i>Event Based Visual Codification in Automotive Environments</i> , pp. 1261-1266.	
Conde, Cristina	Univ. Rey Juan Carlos
Orbe, Eduardo	Univ. Rey Juan Carlos
Martín de Diego, Isaac	Univ. Rey Juan Carlos
Cabello, Enrique	Univ. Rey Juan Carlos
14:40-15:00	TB3.3
<i>Research on Vehicle Tracking Algorithm Using Contourlet Transform</i> , pp. 1267-1272.	
Jian, Wu	Soochow Univ.
Zhiming, Cui	Soochow Univ.
Pengpeng, Zhao	Soochow Univ.
Jianming, Chen	Soochow Univ.
15:00-15:20	TB3.4
<i>Vision-Based Detection and Labelling of Multiple Vehicle Parts</i> , pp. 1273-1278.	
Chávez-Aragón, Alberto	Univ. of Ottawa
Laganière, Robert	Univ. of Ottawa
Payeur, Pierre	Univ. of Ottawa
15:20-15:40	TB3.5
<i>Assessment of Distractions Inferred by In-Vehicle Information Systems on a Naturalistic Simulator</i> , pp. 1279-1284.	
Hernandez Parra, Noelia	Univ. of Alcalá
Jiménez, Pedro	Univ. of Alcalá
Bergasa, Luis M.	Univ. of Alcalá
Parra Alonso, Ignacio	Univ. de Alcalá
García Daza, Iván	Univ. of Alcalá
Ocaña Miguel, Manuel	Univ. of Alcalá
Delgado, Beatriz	ESM
Sevillano, Matías	ESM
TB4	308
Optimization and Control: Theory and Modeling 4 (Regular Session)	
Chair: Tehrani Nik Nejad, Hossein	Toyota Tech. Inst.

14:00-14:20		TB4.1
<i>High Coverage Point-To-Point Transit: Local Vehicle Routing Problem with Genetic Algorithms</i> , pp. 1285-1290.		
Jung, Jaeyoung		Univ. of California, Irvine
Jayakrishnan, R		Univ. of California, Irvine
Nam, Doohee		Hansung Univ.
14:20-14:40		TB4.2
<i>The Traffic Condition Likelihood Extraction Using Incomplete Observation in Distributed Traffic Loop Detectors</i> , pp. 1291-1298.		
Ramezani, Amin		Univ. of Tehran
Moshiri, Behzad		Univ. of Tehran
14:40-15:00		TB4.3
<i>Optimal Motion Generation for Autonomous Vehicle in Maze-Like Environment</i> , pp. 1299-1304.		
Han, Long		Toyota Tech. Inst.
Do, Quoc Huy		Toyota Tech. Inst.
Guo, Chunzhao		Toyota Tech. Inst.
Mita, Seiichi		Toyota Tech. Inst.
15:00-15:20		TB4.4
<i>Energy Saving for Automatic Train Control in Moving Block Signaling System</i> , pp. 1305-1310.		
Gu, Qing		Beijing Jiaotong Univ.
Tang, Tao		Beijing Jiaotong Univ.
Lu, Xiao-Yun		Univ. of California, Berkeley
15:20-15:40		TB4.5
<i>A Novel Approach Based on a Distributed Dynamic Graph Modeling Set up Over a Subdivision Process to Deal with Distributed Optimized Real Time Carpooling Requests</i> , pp. 1311-1316.		
Sghaier, Manel		Ec. Centrale de Lille
Zgaya, Hayfa		Ec. Centrale de Lille (Ec.
Hammadi, Slim		Ec. centrale de Lille
Tahon, Christian		Univ. de Valenciennes et du Hainaut Cambrésis
TB5		309
Pedestrian Detection, Vehicle Detection 1 (Regular Session)		
Chair: Shladover, Steven E.		Univ. of California, Berkeley
14:00-14:20		TB5.1
<i>Surround View Pedestrian Detection Using Heterogeneous Classifier Cascades</i> , pp. 1317-1324.		
Gressmann, Markus		Daimler AG
Palm, Guenther		Univ. of Ulm
Löhlein, Otto		Daimler AG
14:20-14:40		TB5.2
<i>Fusion Procedure for Pedestrian Detection Based on Laser Scanner and Computer Vision</i> , pp. 1325-1330.		
Garcia, Fernando		Univ. Carlos III de Madrid
Musleh Lancis, Basam		Univ. Carlos III of Madrid
de la Escalera, Arturo		Univ. Carlos III de Madrid
Armingol Moreno, José María		Univ. Carlos III de Madrid
14:40-15:00		TB5.3
<i>Background-Aware Pedestrian/Vehicle Detection System for Driving Environments</i> , pp. 1331-1336.		
Joung, Ji Hoon		ETRI
Ryoo, M. S.		Electronics and Telecommunications Res. Inst. (ETRI)
Choi, Sunglok		ETRI
Yu, Wonpil		ETRI
Chae, Heesung		ETRI
15:00-15:20		TB5.4
<i>Video Vehicle Detection through Multiple Background-Based Features and Statistical Learning</i> , pp. 1337-1342.		
Sun, Mingxia		Tianjin Key Lab. for Advanced Signal Processing, Civil Avia

Wang, Kunfeng	Inst. of Automation, Chinese Acad. Sciences
Tang, Ming	Inst. of Automation, Chinese Acad. of Sciences, China
Wang, Fei-Yue	Univ. of Arizona
Yang, Jinfeng	Tianjin Key Lab. for Advanced Signal Processing, Civil Avia
Zhu, Fenghua	Inst. of Automation, Chinese Acad. Sciences

15:20-15:40 TB5.5

Real-Time GPU Implementation of an Improved Cars, Pedestrian and Bicycle Detection and Classification System, pp. 1343-1348.

Moro, Alessandro	DI3, Univ. of Trieste and Chuo Univ.
Mumolo, Enzo	DI3, Univ. of Trieste, Italy
Nolich, Massimiliano	IFACE s.r.l., Italy
Umeda, Kazunori	Chuo Univ. Japan

TB6 310

Traffic Control 4 (Regular Session)

Chair: Rudloff, Christian Austrian Inst. of Tech.

14:00-14:20 TB6.1

Development and Simulation Application of a Dynamic Speed Dynamic Signal Strategy for Arterial Traffic Management, pp. 1349-1354.

Chen, Shenyang	Tongji Univ.
Sun, Jian	Tongji Univ.
Yao, Jing	Tongji Univ.

14:20-14:40 TB6.2

An Analytical Framework for Vehicular Traffic Signal Control Integrated with Dynamic Traffic Assignment Using Cell Transmission Model, pp. 1355-1360.

Aziz, Hussain	Purdue Univ.
Ukkusuri, Satish	Purdue Univ.

14:40-15:00 TB6.3

Multiojective and Multimodal Adaptive Traffic Light Control on Single Junctions, pp. 1361-1368.

Dujardin, Yann	IFSTTAR
Boillot, Florence	IFSTTAR
Vanderpooten, Daniel	Paris Dauphine Univ.
Vinant, Pierre	IFSTTAR

15:00-15:20 TB6.4

A New Ant Colony Routing Approach with a Trade-Off between System and User Optimum, pp. 1369-1374.

Cong, Zhe	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Babuska, Robert	TU Delft

15:20-15:40 TB6.5

Road Traffic Congestion Monitoring and Measurement Using Active RFID and GSM Technology, pp. 1375-1379.

Mandal, Koushik	Pervcom Consulting Pvt Ltd
Sen, Arindam	Pervcom Consulting Pvt Ltd
Chakraborty, Abhijnan	Pervcom Consulting Pvt Ltd
Roy, Siuli	Pervcom Consulting Pvt Ltd
Batabyal, Suvadip	Jadavpur Univ.
Bandyopadhyay, Somprakash	I I M Calcutta

TB7 311

Multi-Sensor Fusion 1 (Regular Session)

Chair: Nedeveschi, Sergiu Tech. Univ. of Cluj-Napoca
 Co-Chair: Hsiao, Pei-Yung National Univ. of Kaohsiung

14:00-14:20 TB7.1

RoadGraph: High Level Sensor Data Fusion between Objects and Street Network, pp. 1380-1385.

Homeier, Kai	Tech. Univ. Braunschweig
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Wolf, Lars	Tech. Univ. Braunschweig
14:20-14:40	TB7.2
<i>A Chained Form State Representation for Outdoor Vehicle Localisation</i> , pp. 1386-1391.	
Smaili, Cherif	LAGIS Pol.
El Badaoui El Najjar, Maan	LAGIS Pol.
Charpillat, François	MAIA-Team-INRIA
14:40-15:00	TB7.3
<i>A Contour Classifying Kalman Filter Based on Evidence Theory</i> , pp. 1392-1397.	
Ohl, Sebastian	TU Braunschweig
Maurer, Markus	TU Braunschweig
15:00-15:20	TB7.4
<i>GNSS-Based Unscented Filtering for Road Map Databases Management</i> , pp. 1398-1403.	
Boucher, Christophe	Univ. Lille Nord de France
Noyer, Jean-Charles	Univ. Lille Nord de France
15:20-15:40	TB7.5
<i>A Model-Based Approach to Probabilistic Situation Assessment for Driver Assistance Systems</i> , pp. 1404-1409.	
Schamm, Thomas	FZI Forschungszentrum Informatik
Zöllner, J. Marius	FZI Forschungszentrum Informatik
TB8	413
Traffic Theory for ITS (Regular Session)	
Chair: Abbas-Turki, Abdeljalil	Univ. de Tech. de Belfort Montbéliard
14:00-14:20	TB8.1
<i>Microscopic Fundamental Relationships between Vehicle Speed and Spacing in View of Asymmetric Traffic Theory</i> , pp. 1410-1414.	
Yeo, Hwasoo	KAIST
Skabardonis, Alexander	Univ. of California Berkeley
14:20-14:40	TB8.2
<i>The Min-Plus Algebra of Transportation Networks Reliability Based on Information Theory</i> , pp. 1415-1420.	
Shlayan, Neveen	Univ. of Nevada, Las Vegas
Kachroo, Pushkin	Univ. of Nevada
Wadoo, Sabiha	New York Inst. of Tech.
14:40-15:00	TB8.3
<i>A Study on Multi-Resolution Scheme of Macroscopic-Microscopic Traffic Simulation Model</i> , pp. 1421-1426.	
Ma, Jian	Tongji Univ.
Sun, Jian	Tongji Univ.
Li, Keping	Tongji Univ.
Zhang, Liyan	Suzhou Univ. of Science and Tech.
TC1	301
Advanced Vehicle Safety Systems 3 (Regular Session)	
Chair: Akar, Mehmet	Bogazici Univ.
Co-Chair: Kucera, Pavel	Brno Univ. of Tech.
16:00-16:20	TC1.1
<i>Real-Time Implementation of a Novel Safety Function for Prevention of Loss of Vehicle Control</i> , pp. 1427-1432.	
Ali, Mohammad	Volvo Cars
Olsson, Claes	Volvo Cars
Sjöberg, Jonas	Chalmers Univ.
16:20-16:40	TC1.2
<i>Emergency Driving Support Algorithm with Steering Torque Overlay and Differential Braking</i> , pp. 1433-1439.	
Choi, Jaewoong	Seoul National Univ.
Kim, Kyuwon	Seoul National Univ.
Yi, Kyongsu	Seoul National Univ.

16:40-17:00	TC1.3
<i>Adaptive Vehicle Parameter Identification in Speed Varying Situations</i> , pp. 1440-1445.	
Akar, Mehmet	Bogazici Univ.
Dere, Ali Dincer	Bogazici Univ.
17:00-17:20	TC1.4
<i>On Vehicle Data Acquisition System</i> , pp. 1446-1451.	
Kucera, Pavel	Brno Univ. of Tech.
Hyncica, Ondrej	Brno Univ. of Tech.
Honzik, Petr	Brno Univ. of Tech.
Pavlata, Karel	Brno Univ. of Tech.
Horak, Karel	Brno Univ. of Tech.
17:20-17:40	TC1.5
<i>The H2-Optimal Preview Controller for a Shared Lateral Control</i> , pp. 1452-1458.	
Sentouh, Chouki	LAMIH/CNRS Univ. of Valenciennes
Soualmi, Boussaad	LAMIH, Valenciennes Univ.
Popieul, Jean-Christophe	Univ. de Valenciennes
Debernard, Serge	Univ. of Valenciennes/LAMIH
TC2	302
Driver Assistance Systems 2 (Regular Session)	
Chair: Schubert, Robin	Chemnitz Univ. of Tech.
Co-Chair: Seredynski, Marcin	Univ. of Luxembourg
16:00-16:20	TC2.1
<i>Controller Design for Trajectory Tracking of Autonomous Passenger Vehicles</i> , pp. 1459-1464.	
Hima, Salim	IFSTTAR
Glaser, Sébastien	LCPC
Chaibet, Ahmed	Ec. Supérieure des Tech. AréronautiquesetConstruction Aut
Vanholme, Benoit	IFSTTAR
16:20-16:40	TC2.2
<i>Highly Automated Driving on Highways: System Implementation on PC and Automotive ECUs</i> , pp. 1465-1470.	
Vanholme, Benoit	IFSTTAR
Lusetti, Benoit	IFSTTAR
Gruyer, Dominique	IFSTTAR
Glaser, Sébastien	IFSTTAR
Mammar, Said	Univ. EVRY
16:40-17:00	TC2.3
<i>Empirical Evaluation of a Unified Bayesian Object and Situation Assessment Approach for Lane Change Assistance</i> , pp. 1471-1476.	
Schubert, Robin	Chemnitz Univ. of Tech.
Wanielik, Gerd	Chemnitz Univ. of Tech.
17:00-17:20	TC2.4
<i>An Approach for Real-Time Stress-Trend Detection Using Physiological Signals in Wearable Computing Systems for Automotive Drivers</i> , pp. 1477-1482.	
Singh, Rajiv Ranjan	Birla Inst. of Tech. & Science, Pilani,Rajasthan,India,
Conjeti, Sailesh	Birla Inst. of Tech. and Science, Pilani,Rajasthan, Ind
Banerjee, Rahul	Birla Inst. of Tech. & Science, Pilani, Rajasthan,India
17:20-17:40	TC2.5
<i>A Real-Time Spatio-Temporal Stereo Matching for Road Applications</i> , pp. 1483-1488.	
El Ansari, Mohamed	Ibn Zohr Univ. Morocco / LITIS - INSA de Rouen, France
Mazoul, Abdenbi	Faculty of Science, Ibn Zohr Univ.
Bensrhair, Abdelaziz	INSA de Rouen
Bebis, George	Univ. of Nevada

TC3		307
Advanced Public Transportation Management (Regular Session)		
Chair: Wang, Bruce		Texas A&M Univ.
Co-Chair: Yuan, Yu		IBM Corp.
16:00-16:20		TC3.1
<i>A Token-Based Admission Control and Request Scheduling in Lane Reservation Systems</i> , pp. 1489-1494.		
Liu, Kai		City Univ. of Hong Kong
Son, Sang		Univ. of Virginia
Lee, Victor C. S.		City Univ. of Hong Kong
Kapitanova, Krasimira		Univ. of Virginia
16:20-16:40		TC3.2
<i>Perfect Homogeneous Rail Traffic: A Quick Efficient Genetic Algorithm for High Frequency Train Timetabling</i> , pp. 1495-1500.		
Abbas-Turki, Abdeljalil		Univ. de Tech. de Belfort Montbéliard
Zaremba, Eric		ERSA FRANCE
Grunder, Olivier		Univ. de Tech. de Belfort Montbéliard
El Moudni, Abdellah		Univ. de Tech. de Belfort Montbéliard
16:40-17:00		TC3.3
<i>Applying Availability SLAs to Traffic Management Systems</i> , pp. 1501-1506.		
Stoegerer, Christoph		SWARCO Futurit GmbH
Brandic, Ivona		Vienna Univ. of Tech.
Emeakaroha, Vincent		Vienna Univ. of Tech.
Kastner, Wolfgang		Vienna Univ. of Tech.
Novak, Thomas		SWARCO Futurit GmbH
17:00-17:20		TC3.4
<i>The Network-Inspired Transportation System: A Hierarchical Approach to Integrated Transit</i> , pp. 1507-1512.		
Edwards, Derek		Georgia Inst. of Tech.
Trivedi, Aarjav		RideCell, LLC
Elangovan, Arun Kumar		RideCell, LLC
Dickerson, Steve		Georgia Inst. of Tech.
17:20-17:40		TC3.5
<i>Short-Term Forecasting of Transit Route OD Matrix with Smart Card Data</i> , pp. 1513-1518.		
Chen, Xumei		Beijing Jiaotong Univ.
Guo, Shuxia		Beijing Jiaotong Univ.
Yu, Lei		Texas Southern Univ.
Hellinga, Bruce		Univ. of Waterloo
TC4		308
Optimization and Control: Theory and Modeling 5 (Regular Session)		
Chair: Kahveci, Nazli E.		Toyota Motor Engineering & Manufacturing North America, Inc.
16:00-16:20		TC4.1
<i>Berth Assignment Planning for Multi-Berth Bus Stops</i> , pp. 1519-1524.		
Wu, Xiongchu		Tsinghua Univ. CRSCD
Li, Zhiheng		Tsinghua Univ.
Li, Li		Tsinghua Univ.
Su, Yuelong		Tsinghua Univ.
Lu, Lu		Tsinghua Univ.
Tan, Jiyuan		Tsinghua Univ.
16:20-16:40		TC4.2
<i>VTL Zone-Aware Path Cloaking Algorithm</i> , pp. 1525-1530.		
Zan, Bin		WINLAB, Rutgers Univ.
Hao, Peng		Rensselaer Pol. Inst.
Gruteser, Marco		Rutgers Univ.
Ban, Jeff		Rensselaer Pol. Inst.

16:40-17:00	TC4.3
<i>Transfer Optimization in Transit Networks: Headway and Departure Time Coordination</i> , pp. 1531-1536.	
Khani, Alireza	Univ. of Arizona
Shafahi, Yousef	Sharif Univ. of Tech.
17:00-17:20	TC4.4
<i>Probabilistic MDP Behavior Planning for Cars</i> , pp. 1537-1542. Attachment	
Brechtel, Sebastian	Karlsruhe Institute of Tech.
Gindele, Tobias	Karlsruhe Inst. of Tech.
Dillmann, Rüdiger	Karlsruhe Inst. of Tech.
17:20-17:40	TC4.5
<i>A Hierarchical Approach for Dynamic Origin-Destination Matrix Estimation on Large-Scale Congested Networks</i> , pp. 1543-1548.	
Frederix, Rodric	Katholieke Univ. Leuven
Viti, Francesco	Katholieke Univ. Leuven
Tampere, Chris	Katholieke Univ. Leuven
TC5	309
Pedestrian Detection, Vehicle Detection 2 (Regular Session)	
Chair: Fu, Li-Chen	National Taiwan Univ.
Co-Chair: Bhuiyan, Shoaib	Suzuka Univ. of Medical Science
16:00-16:20	TC5.1
<i>Near-Infrared Based Nighttime Pedestrian Detection by Combining Multiple Features</i> , pp. 1549-1554.	
Lin, Yu-Chun	National Taiwan Univ.
Chan, Yi-Ming	National Taiwan Univ.
Chuang, Luo-Chieh	National Taiwan Univ.
Fu, Li-Chen	National Taiwan Univ.
Huang, Shih-Shinh	National Taiwan Univ.
Hsiao, Pei-Yung	National Univ. of Kaohsiung
Luo, Min-Fang	Chung-Shan Inst. of Science & Tech.
16:20-16:40	TC5.2
<i>Vehicle Detection Using an Extended Hidden Random Field Model</i> , pp. 1555-1559.	
Zhang, Xuetao	Xi'an Jiaotong Univ.
Zheng, Nanning	Xi'an Jiaotong Univ.
He, Yong-Jian	Xi'an Jiaotong Univ.
Wang, Fei	Xi'an Jiaotong Univ.
16:40-17:00	TC5.3
<i>Vision-Based Vehicle Detection for Nighttime with Discriminately Trained Mixture of Weighted Deformable Part Models</i> , pp. 1560-1565.	
Tehrani Nik Nejad, Hossein	Toyota Tech. Inst.
Mita, Seiichi	Toyota Tech. Inst.
McAllester, David	Toyota Tech. Inst. at Chicago
Naito, Takashi	Toyota Central R&D Lab. Inc.
17:00-17:20	TC5.4
<i>Some Practical Vehicle Speed Estimation Methods by a Single Traffic Magnetic Sensor</i> , pp. 1566-1573.	
Li, Haijian	Beijing Jiaotong Univ.
Dong, Honghui	Beijing Jiaotong Univ.
Jia, Li-min	Beijing Jiaotong Univ.
Xu, Dongwei	Beijing Jiaotong Univ.
Qin, Yong	Beijing Jiaotong Univ. State Key Lab. of RailTraffic
17:20-17:40	TC5.5
<i>Evaluation of Boosting-SVM and SRM-SVM Cascade Classifiers in Laser and Vision-Based Pedestrian Detection</i> , pp. 1574-1579.	
Ludwig, Oswaldo	ISR-Inst. of Systems and Robotics-UC
Premebida, Cristiano	Inst. for Systems and Robotics

TC6		310
Traffic Control 5 (Regular Session)		
Chair: Barnes, Ronald		Univ. of Oklahoma
Co-Chair: Paik, Daehyun		Martingale Res. Corp.
16:00-16:20		TC6.1
<i>Traffic Light Control in Non-Stationary Environments Based on Multi Agent Q-Learning</i> , pp. 1580-1585.		
Abdoos, Monireh		Iran Univ. of Science and Tech.
Mozayani, Nasser		Iran Univ. of Science and Tech.
Bazzan, Ana Lucia		Univ. Federal do Rio Grande do Sul
16:20-16:40		TC6.2
<i>The S-Train System: Synchronized Express & Local Trains for Urban Commuter Rail Systems</i> , pp. 1586-1591.		
Chun, Joong H.		Integrated Transportation Tech.
Anderson, Rodney M.		Anderson & Levine, LLP
Paik, Daehyun		Martingale Res. Corp.
16:40-17:00		TC6.3
<i>Feedback Ramp Metering Using Godunov Method Based Hybrid Model</i> , pp. 1592-1597.		
Kachroo, Pushkin		Univ. of Nevada
Shlayan, Neveen		Univ. of Nevada, Las Vegas
Wadoo, Sabiha		New York Inst. of Tech.
17:00-17:20		TC6.4
<i>Optimal Trajectory Planning for Trains Using Mixed Integer Linear Programming</i> , pp. 1598-1603.		
Wang, Yihui		Tech. Univ. of Delft
De Schutter, Bart		Delft Univ. of Tech.
Ning, Bin		Beijing JiaoTong Univ.
Groot, Noortje		Delft Univ. of Tech.
van den Boom, Ton		Delft Univ. of Tech.
17:20-17:40		TC6.5
<i>Stopping Behavior for the Rural Road Intersection of Xu Song Road and Xin Tong Road in Tong Zhou District, Beijing</i> , pp. 1604-1608.		
Yu, Quan		Beijing Univ. of Tech.
Zhao, Jin		Beijing Univ. of Tech.
Li, Ning		Beijing Univ. of Tech.
TC7		311
Multi-Sensor Fusion 2 (Regular Session)		
Chair: Prokhorov, Danil		Toyota Res. Inst. NA
16:00-16:20		TC7.1
<i>Driving Style Recognition Using a Smartphone As a Sensor Platform</i> , pp. 1609-1615.		
Johnson, Derick A.		Univ. of California, San Diego
Trivedi, Mohan M.		Univ. of California at San Diego
16:20-16:40		TC7.2
<i>Road Condition Discrimination Using Weather Data and Camera Images</i> , pp. 1616-1621.		
Jonsson, Patrik		Mid Sweden Univ.
16:40-17:00		TC7.3
<i>A Bayesian Approach to Jointly Estimate Tire Radii and Vehicle Trajectory</i> , pp. 1622-1627.		
Ozkan, Emre		Linköping Univ.
Lundquist, Christian		Linköping Univ.
Gustafsson, Fredrik		Linköping Univ.
17:00-17:20		TC7.4
<i>Sensor Subset Selection for Traffic Management</i> , pp. 1628-1633.		

Gupta, Raj	IBM Res.
Srivastava, Biplav	IBM Res.
17:20-17:40	TC7.5
<i>Vehicle Environment Detection by a Combined Low and Mid Level Fusion of a Laser Scanner and Stereo Vision</i> , pp. 1634-1639.	
Haberjahn, Mathias	German Aerospace Center
Junghans, Marek	German Aerospace Center
TC8	413
Learning Techniques in ITS (Special Session)	
Chair: Davarynejad, Mohsen	TU Delft
Co-Chair: Hegyi, Andreas	Delft Univ. of Tech.
16:00-16:20	TC8.1
<i>Reinforcement Learning with Average Cost for Adaptive Control of Traffic Lights at Intersections (I)</i> , pp. 1640-1645.	
L A, Prashanth	Indian Inst. of Science
Bhatnagar, Shalabh	Indian Inst. of Science
16:20-16:40	TC8.2
<i>A Learning Technique for Deploying Self-Tuning Traffic Control Systems (I)</i> , pp. 1646-1651.	
Kouvelas, Anastasios	Tech. Univ. of Crete
Papageorgiou, Markos	Tech. Univ. of Crete
Kosmatopoulos, Elias	Democritus Univ. of Thrace
Papamichail, Ioannis	Tech. Univ. of Crete
16:40-17:00	TC8.3
<i>Motorway Ramp-Metering Control with Queuing Consideration Using Q-Learning (I)</i> , pp. 1652-1658.	
Davarynejad, Mohsen	TU Delft
Hegyi, Andreas	Delft Univ. of Tech.
Vrancken, Jos	Delft Univ. of Tech.
van den Berg, Jan	Delft Univ. of Tech.

Technical Program for Friday October 7, 2011

FA1	301
Environment Perception (Regular Session)	
Chair: Sotelo, Miguel A.	Univ. of Alcalá
Co-Chair: Guo, Chunzhao	Toyota Tech. Inst.
09:00-09:20	FA1.1
<i>Relevance Estimation of Traffic Elements Using Markov Logic Networks</i> , pp. 1659-1664.	
Nienhüser, Dennis	FZI Forschungszentrum Informatik
Gumpp, Thomas	FZI Forschungszentrum Informatik
Zöllner, J. Marius	FZI Forschungszentrum Informatik
09:20-09:40	FA1.2
<i>Extended Occupation Grids for Non-Rigid Moving Objects Tracking</i> , pp. 1665-1671.	
Lefaudeux, Benjamin	INRIA
Nashashibi, Fawzi	INRIA
Gâté, Gwennaël	Mines Paris (ParisTech)
09:40-10:00	FA1.3
<i>Hierarchical Road Understanding for Intelligent Vehicles Based on Sensor Fusion</i> , pp. 1672-1679.	
Guo, Chunzhao	Toyota Tech. Inst.
Mita, Seiichi	Toyota Tech. Inst.
McAllester, David	Toyota Tech. Inst. at Chicago
10:00-10:20	FA1.4
<i>Asynchronous Real-Time Framework for Knowledge-Based Intersection Assistance</i> , pp. 1680-1685.	
Huelsen, Michael	Robert Bosch GmbH
Zöllner, J. Marius	FZI Forschungszentrum Informatik
Haeberlen, Nino	Robert Bosch GmbH
Weiss, Christian	Robert Bosch GmbH
10:20-10:40	FA1.5
<i>A Complete System to Determine the Speed Limit by Fusing a GIS and a Camera</i> , pp. 1686-1691.	
Puthon, Anne-Sophie	Ec. des Mines de Paris
Nashashibi, Fawzi	INRIA
Bradai, Benazouz	Valeo Lighting Systems
FA2	302
Driver Assistance Systems 3 (Regular Session)	
Chair: Okada, Hiraku	Nagoya Univ.
09:00-09:20	FA2.1
<i>A Method of Vehicle Dynamics Prediction to Anticipate the Risk of Future Accidents: Experimental Validation</i> , pp. 1692-1697.	
Ghandour, Raymond	Univ. de Tech. de Compiègne
Da Cunha, Felipe	Univ. de Tech. de Compiègne
Victorino, Alessandro	Univ. de Tech. de Compiègne, Département de Genie Inf
Charara, Ali	HEUDIASYC UMR UTC/CNRS 6599
Lechner, Daniel	INRETS-MA
09:20-09:40	FA2.2
<i>Probabilistic Driving Style Determination by Means of a Situation Based Analysis of the Vehicle Data</i> , pp. 1698-1703.	
Bär, Tobias	Forschungszentrum Informatik Karlsruhe
Nienhüser, Dennis	Forschungszentrum Informatik Karlsruhe
Kohlhaas, Ralf	Forschungszentrum Informatik Karlsruhe
Zöllner, J. Marius	Forschungszentrum Informatik Karlsruhe
09:40-10:00	FA2.3
<i>Overlay Coding for Road-To-Vehicle Visible Light Communication Using LED Array and High-Speed Camera</i> , pp. 1704-1709.	
Nishimoto, Sayaka	Nagoya Univ.
Nagura, Toru	Nagoya Univ.

Yamazato, Takaya	Nagoya Univ.
Yendo, Tomohiro	Nagaoka Univ. of Tech.
Fujii, Toshiaki	Nagoya Univ.
Okada, Hiraku	Nagoya Univ.
Arai, Shintaro	Kagawa National Coll. of Tech.

10:00-10:20 FA2.4

Simultaneous Stimuli of Vibration and Audio for In-Vehicle Driver Activation, pp. 1710-1715.

Kawamura, Ryota	Aichi Prefectural Univ.
Bhuiyan, Shoaib	Suzuka Univ. of Medical Science
Kawanaka, Haruki	Aichi Prefectural Univ.
Oguri, Koji	Aichi Prefectural Univ.

10:20-10:40 FA2.5

Traffic Violation Alert and Management, pp. 1716-1720.

Aliane, Nourdine	Univ. Europea de Madrid
Fernandez, Javier	Univ. europea de madrid
Bemposta, Sergio	Univ. europea de madrid
Mata, Mario	Univ. europea de madrid

FA3 307

Lane Detection and Lane Keeping (Regular Session)

Chair: Stiller, Christoph Karlsruhe Inst. of Tech.

09:00-09:20 FA3.1

On Feature Templates for Particle Filter Based Lane Detection, pp. 1721-1726.

Linarth, Andre Guilherme	Elektrobit Automotive GmbH
Angelopoulou, Elli	Friedrich-Alexander Univ. Erlangen-Nuremberg

09:20-09:40 FA3.2

Prediction of Unintended Lane Departure Based on Virtual Driver, pp. 1727-1734.

Chen, Qingyang	National Univ. of Defense Tech.
Sun, Zhenping	National Univ. of Defense Tech.
An, Xiangjing	National Univ. of Defense Tech.
Liu, Daxue	National Univ. of Defense Tech.
Song, Jinze	National Univ. of Defense Tech.
Zhang, Bo	Trucks and Ships Military Delegate Bureau, General Armament Mini

09:40-10:00 FA3.3

The Performance of Driver Sleepiness Indicators As a Function of Interval Length, pp. 1735-1740.

Sandberg, David	Swedish National Road and Transport Res. Inst.
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10:00-10:20 FA3.4

Lane Marking Extraction with Combination Strategy and Comparative Evaluation on Synthetic and Camera Images, pp. 1741-1746.

Pollard, Evangeline	Univ. de Sherbrooke
Gruyer, Dominique	IFSTTAR
Tarel, Jean-Philippe	Univ. Paris-Est, IFSTTAR
Ieng, Sio-Song	Univ. Paris-Est IFSTTAR
Cord, Aurelien	Univ. LIVIC, IFSTTAR

10:20-10:40 FA3.5

Detection and Recognition of Urban Road Markings Using Images, pp. 1747-1752.

Foucher, Philippe	CETE de l'Est
Sebsadji, Yazid	LRPC
Tarel, Jean-Philippe	Univ. Paris-Est, IFSTTAR
Charbonnier, Pierre	LRPC
Nicolle, Philippe	LCPC

FA4 308

New Findings through Simulations Using Existing Protocols (Regular Session)

Chair: Qiu, Tony	Univ. of Alberta
09:00-09:20	FA4.1
<i>Evaluation of Probe Vehicle Sampling Strategies for Traffic Signal Control</i> , pp. 1753-1758.	
Shladover, Steven E.	Univ. of California, Berkeley
Li, Jing-Quan	Univ. of California at Berkeley
09:20-09:40	FA4.2
<i>Scalability and QoS in MS-Aloha VANETs: Forced Slot Re-Use versus Pre-Emption</i> , pp. 1759-1766.	
Cozzetti, Hector Agustin	Istituto Superiore Mario Boella
Scopigno, Riccardo	Istituto Superiore Mario Boella
09:40-10:00	FA4.3
<i>Estimation of Measures of Effectiveness Based on Connected Vehicle Data</i> , pp. 1767-1772.	
Argote, Juan	Univ. of California, Berkeley
Christofa, Eleni	Univ. of California, Berkeley
Xuan, Yiguang	Univ. of California, Berkeley
Skabardonis, Alexander	Univ. of California Berkeley
10:00-10:20	FA4.4
<i>Multi-Hop Compass Protocol for Routing in Vehicular Networks in Manhattan Environment</i> , pp. 1773-1778.	
Van de Velde, Erwin	Univ. of Antwerp
Blondia, Chris	Univ. of Antwerp
10:20-10:40	FA4.5
<i>GeoCode: A Geographic Coding-Aware Communication Protocol</i> , pp. 1779-1784.	
Khamfroush, Hana	Porto Univ. Department of Electrical and Computer Engineer
Lucani, Daniel	Porto Univ. Department of Electrical and Computer Engineer
Barros, João	Univ. of Porto, Department of Electrical and Computer Engine

FA5

311

Agent-Based Methods for Modeling and Analysis (Regular Session)

Chair: Barnes, Ronald	Univ. of Oklahoma
09:00-09:20	FA5.1
<i>Determination and Optimization of Reinforcement Learning Parameters for Driver Actions in Traffic</i> , pp. 1785-1790.	
Chong, Linsen	Virginia Tech.
Abbas, Montasir	Virginia Tech.
Higgs, Bryan	Virginia Tech.
Medina, Alejandra	Virginia Tech. Univ.
Yang, David	Turner-Fairbank Highway Res. Center, FHWA
09:20-09:40	FA5.2
<i>A Revised Reinforcement Learning Algorithm to Model Complicated Vehicle Continuous Actions in Traffic</i> , pp. 1791-1796.	
Chong, Linsen	Virginia Tech.
Abbas, Montasir	Virginia Tech.
Higgs, Bryan	Virginia Tech.
Medina, Alejandra	Virginia Tech. Univ.
Yang, David	Turner-Fairbank Highway Res. Center, FHWA
09:40-10:00	FA5.3
<i>Agent-Based Evaluation of Driver Heterogeneous Behavior During Safety Critical Events</i> , pp. 1797-1802.	
Abbas, Montasir	Virginia Tech.
Chong, Linsen	Virginia Tech.
Higgs, Bryan	Virginia Tech.
Medina, Alejandra	Virginia Tech. Univ.
Yang, David	Turner-Fairbank Highway Res. Center, FHWA
10:00-10:20	FA5.4
<i>Ad Hoc Link Traversal Time Prediction</i> , pp. 1803-1808.	
Claes, Rutger	K.U.Leuven

Holvoet, Tom	K.U.Leuven
10:20-10:40	FA5.5
<i>Agent-Based Behavioral Modeling Framework of Driver Behavior at the Onset of Yellow Indication at Signalized Intersections</i> , pp. 1809-1814.	
Amer, Ahmed	VHB
Rakha, Hesham A.	Virginia Tech.
EL-Shawarby, Ihab	Virginia Tech.
FA6	310
ITS Implementation (Regular Session)	
Chair: Yu, Quan	Beijing Univ. of Tech.
Co-Chair: Fu, Li-Chen	National Taiwan Univ.
09:00-09:20	FA6.1
<i>A Comparison of Approximate Dynamic Programming and Simple Genetic Algorithm for Traffic Control in Oversaturated Conditions – Case Study of a Simple Symmetric Network</i> , pp. 1815-1820.	
Medina, Juan C	Univ. of Illinois at Urbana - Champaign
Hajbabaie, Ali	Univ. of Illinois at Urbana Champaign
Benekohal, Rahim F.	Univ. of Illinois Urbana-Champaign
09:20-09:40	FA6.2
<i>Development of a Real-Time On-Road Emissions Estimation and Monitoring System</i> , pp. 1821-1826.	
Liu, Hang	Univ. of California, Irvine
Tok, Yeow Chern Andre	Univ. of California, Irvine
Ritchie, Stephen	Univ. of California, Irvine
09:40-10:00	FA6.3
<i>System and Analytics for Continuously Assessing Transport Systems from Sparse and Noisy Observations: Case Study in Dublin</i> , pp. 1827-1832.	
Gasparini, Luca	IBM Dublin Res. Lab.
Bouillet, Eric	IBM Dublin Res. Lab.
Calabrese, Francesco	IBM Dublin Res. Lab.
Verscheure, Olivier	IBM Dublin Res. Lab.
O'Brien, Brendan	Dublin City Council
O'Donnell, Maggie	Dublin City Council
10:00-10:20	FA6.4
<i>A Business Content Explorer for Intelligent Traffic Projects</i> , pp. 1833-1838.	
Srivastava, Biplav	IBM Res.
Bhat, Sumana	IBM India
Brown, Karen	IBM USA
Jain, Ankur	IBM India
Joshi, Bipin	IBM India
Tamilselvam, Srikanth	IBM India
White, Terrence	IBM USA
10:20-10:40	FA6.5
<i>An Adaptive Routing System for Location-Aware Mobile Devices on the Road Network</i> , pp. 1839-1845.	
Borokhov, Pavel	Univ. of California, Berkeley
Blandin, Sebastien	Univ. of California, Berkeley
Samaranayake, Samitha	Univ. of California, Berkeley
Goldschmidt, Olivier	California Center for Innovative Transportation
Bayen, Alexandre	Univ. of California, Berkeley
FA7	402
Reliability and Safety (Regular Session)	
Chair: Lee, Kangwon	Korea Pol. Univ.
09:00-09:20	FA7.1
<i>Injury Mitigation in the Collision Partners of Pre-Collision System Equipped Vehicles in Rear-End Collisions</i> , pp. 1846-1851.	

Kusano, Kristofer D	Virginia Tech.
Gabler, Hampton Clay	Virginia Tech.
09:20-09:40	FA7.2
<i>Effects of Alcohol Intoxication on Simulated Driving Performance</i> , pp. 1852-1857.	
Wu, Zhuoran	Univ. of Tongji
Feng, Changming	Univ. of Tongji
Zhang, Xinting	Univ. of Tongji
Chen, Guojun	Univ. of Tongji
09:40-10:00	FA7.3
<i>Embedded Sensor System and Techniques to Evaluate the Comfort in Public Transportation</i> , pp. 1858-1863.	
Castellanos, Juan Camilo	Univ. of Campinas
Susin, Altamiro	Federal Univ. of Rio Grande do Sul
Fruett, Fabiano	Univ. of Campinas
10:00-10:20	FA7.4
<i>Headway-Based Evaluation of Bus Service Reliability</i> , pp. 1864-1868.	
Guo, Gaohua	Tongji Univ. Shanghai, China
Luo, Hailong	Tongji Univ. Shanghai, China
Lin, Xiongfeng	Tongji Univ. Shanghai, China
Feng, Changming	Tongji Univ. Shanghai, China
10:20-10:40	FA7.5
<i>Study and Application of Fault Injection in HLA-Based Train Control Simulation System</i> , pp. 1869-1873.	
Gou, Chen-xi	Beijing Jiaotong Univ.
Cai, Bai-gen	Beijing Jiaotong Univ.
ShangGuan, Wei	Beijing Jiaotong Univ.
Wang, Jian	Beijing Jiaotong Univ.
FA8	413
Human Centered Design for ITS (Regular Session)	
Chair: Cantarella, Giulio Erberto	Univ. of Salerno
Co-Chair: Haas, Olivier	Coventry Univ.
09:00-09:20	FA8.1
<i>Online Parameter Estimation of Driving Behavior Using Probability-Weighted ARX Models</i> , pp. 1874-1879.	
Ikami, Norimitsu	Nagoya Univ.
Okuda, Hiroyuki	Nagoya Univ.
Tazaki, Yuichi	Nagoya Univ.
Suzuki, Tatsuya	Nagoya Univ.
Takeda, Kazuya	Nagoya Univ.
09:20-09:40	FA8.2
<i>Proposal of an Eco-Driving Assist System Adaptive to Driver's Skill</i> , pp. 1880-1885.	
Wada, Takahiro	Kagawa Univ.
Yoshimura, Koki	Kagawa Univ.
Doi, Shunichi	Kagawa Univ.
Youhata, Hironori	Fujitsu Ten, CO., LTD.
Tomiyama, Koichi	Fujitsu Ten, CO., LTD.
09:40-10:00	FA8.3
<i>Upgrading Cultural Infrastructures: Notes on the Strategy Concerning Variable Message Signs on the European Scene</i> , pp. 1886-1891.	
Lucas-Alba, Antonio	Univ. of Zaragoza
Arbaiza, Alberto	Ministry of Interior
Blanch, M ^a Teresa	Univ. of Valencia
Desnouailles, Christophe	SETRA
Evans, Darren	Highways Agency
Kjemtrup, Kenneth	Vejdirektoratet
Martins, Rita	InIR

Papoustitakis, Yannis	TEO.S.L.
Remeijn, Hans	Rijkswaterstaat
Thyni, Gunilla	Trafikverket
Tognoni, Gilberto	SINA SpA
Zorin, Ulrich	DARS
10:00-10:20	FA8.4
<i>Tactical Driver Behavior Prediction and Intent Inference: A Review</i> , pp. 1892-1897.	
Doshi, Anup	Univ. of California, San Diego
Trivedi, Mohan M.	Univ. of California at San Diego
10:20-10:40	FA8.5
<i>Microscopic Dynamic Traffic Management: Simulation of Two Typical Situations</i> , pp. 1898-1903.	
Daamen, Winnie	TU Delft Civil Engineering and Geosciences
van Arem, Bart	Delft Univ. of Tech.
Bouma, Ivo	Delft Univ. of Tech.
FB1	301
Multi-Autonomous Vehicle: Models, Techniques and Simulations (Regular Session)	
Chair: Takeda, Kazuya	Nagoya Univ.
Co-Chair: Nashashibi, Fawzi	INRIA
11:00-11:20	FB1.1
<i>Virtual Sensor System: Merging the Real World with a Simulation Environment</i> , pp. 1904-1909.	
Vernier, Michael	The Ohio State Univ.
Ozguner, Umit	Ohio State Univ.
11:20-11:40	FB1.2
<i>Evaluating Adaptive Cruise Control Strategies in Worst-Case Scenarios</i> , pp. 1910-1915.	
van Willigen, Willem	VU Univ. Amsterdam
Schut, Martijn	VU Univ. Amsterdam
Kester, Leon	TNO
11:40-12:00	FB1.3
<i>Cooperative Multitarget Tracking and Surveillance with Mobile Sensing Agents: A Decentralized Approach</i> , pp. 1916-1922.	
Adamey, Emrah	The Ohio State Univ.
Ozguner, Umit	Ohio State Univ.
12:00-12:20	FB1.4
<i>Unscented Information Filter Based Multi-Sensor Data Fusion Using Stereo Camera, Laser Range Finder and GPS Receiver for Vehicle Localization</i> , pp. 1923-1928.	
Wei, Lijun	Univ. de Tech. de Belfort-Montbéliard, France
Cappelle, Cindy	SeT - Lab. Systèmes et Transports
Ruichek, Yassine	Univ. of Tech. of Belfort-Montbéliard
12:20-12:40	FB1.5
<i>Dynamic Lane Reversal in Autonomous Traffic Management</i> , pp. 1929-1934.	
Hausknecht, Matthew	Univ. of Texas at Austin
Au, Tsz-Chiu	The Univ. of Texas at Austin
Stone, Peter	The Univ. of Texas at Austin
Fajardo, David	Univ. of New South Wales
Waller, S. Travis	Univ. of New South Wales
12:40-13:00	FB1.6
<i>Algorithms for Management of a Multi-Platooning System of IVC-Enabled Autonomous Vehicles, with High Traffic Capacity</i> , pp. 1935-1941.	
Fernandes, Pedro	Inst. of Systems and Robotics
Nunes, Urbano	Univ. de Coimbra

FB2	302
Driver Assistance Systems 4 (Regular Session)	

11:00-11:20 FB2.1

Detection and Tracking of Traffic Signs Using a Recursive Bayesian Decision Framework, pp. 1942-1947.

Marinas, Javier Univ. Pol. de Madrid
Salgado, Luis Univ. Pol. de Madrid
Arróspide, Jon Univ. Pol. de Madrid
Nieto, Marcos Vicomtech-ik4

11:20-11:40 FB2.2

Unsignalized Intersections: Can ITS Offer Improved Efficiency and Safety?, pp. 1948-1953.

Zhang, Neil Univ. of California at Berkeley
Zhang, Wei-Bin Univ. of California at Berkeley
Li, Jing-Quan Univ. of California at Berkeley
Zhang, Kevin Acalanes High School

11:40-12:00 FB2.3

Segmentation Masks for Real-Time Traffic Sign Recognition Using Weighted HOG-Based Trees, pp. 1954-1959.

Zaklouta, Fatin MinesParisTech
Stanciulescu, Bogdan Mines-ParisTech

12:00-12:20 FB2.4

Autonomous Detection of Distracted Driving by Cell Phone, pp. 1960-1965.

Watkins, Michael L Pacific Northwest National Lab.
Amaya, Ivan A Pacific Northwest National Lab.
Keller, Paul E. Pacific Northwest National Lab.
Hughes, Michael A Pacific Northwest National Lab.
Beck, Edward D Pacific Northwest National Lab.

12:20-12:40 FB2.5

Anticipatory Energy Saving Assistant for Approaching Slower Vehicles, pp. 1966-1971.

Kohlhaas, Ralf FZI Forschungszentrum Informatik
Schamm, Thomas FZI Forschungszentrum Informatik
Nienhäuser, Dennis FZI Forschungszentrum Informatik
Zöllner, J. Marius FZI Forschungszentrum Informatik

12:40-13:00 FB2.6

Extracting Driver's Facial Features During Driving, pp. 1972-1977.

Wang, Jung-Ming National Taiwan Univ.
Chou, Han-Ping Chung-Hua Univ.
Hsu, Chih-Fan National Taiwan Normal Univ.
Chen, Sei-Wang National Taiwan Normal Univ.
Fuh, Chiou-Shann National Taiwan Univ.

FB3 307

Vehicle Localization and Autonomous Navigation (Regular Session)

Chair: Sandberg, David Swedish National Road and Transport Res. Inst.
Co-Chair: Lehner, Andreas German Aerospace Center (DLR)

11:00-11:20 FB3.1

Long Term Vehicle Motion Prediction and Tracking in Large Environments, pp. 1978-1983.

Shan, Mao Univ. of Sydney
Worrall, Stewart Univ. of Sydney
Nebot, Eduardo ACFR Univ. of Sydney

11:20-11:40 FB3.2

A Novel Automatic Track Identification Algorithm Based on LTS-Hausdorff Distance, pp. 1984-1988.

Yan, Xi-Hui Beijing Jiaotong Univ.
Wang, Jian Beijing Jiaotong Univ.
Cai, Bai-gen Beijing Jiaotong Univ.

ShangGuan, Wei	Beijing Jiaotong Univ.
11:40-12:00	FB3.3
<i>Dynamic Path Planning for Coordinated Motion of Multiple Mobile Robots</i> , pp. 1989-1994.	
Langerwisch, Marco	Leibniz Univ. Hannover, Inst. for Systems Engineering,
Wagner, Bernardo	Leibniz Univ. Hannover, Inst. for Systems Engineering,
12:00-12:20	FB3.4
<i>Measurement and Analysis of Train Motion and Railway Track Characteristics with Inertial Sensors</i> , pp. 1995-2000.	
Heirich, Oliver	German Aerospace Center (DLR)
Lehner, Andreas	German Aerospace Center (DLR)
Robertson, Patrick	German Aerospace Center (DLR)
Strang, Thomas	German Aerospace Center (DLR)
12:20-12:40	FB3.5
<i>GIS-Based Topological Robot Localization through LIDAR Crossroad Detection</i> , pp. 2001-2008. Attachment	
Mueller, Andre	Univ. of the Bundeswehr Munich
Himmelsbach, Michael	Univ. of the Bundeswehr Munich
Luettel, Thorsten	Univ. of the Bundeswehr Munich
von Hundelshausen, Felix	Univ. of the Bundeswehr Munich
Wuensche, Hans-Joachim	Univ. of the Bundeswehr Munich
12:40-13:00	FB3.6
<i>Distributed Vehicle State Estimation System Using Information Fusion of GPS and In-Vehicle Sensors for Vehicle Localization</i> , pp. 2009-2014.	
Jo, Kichun	Hanyang Univ.
Sunwoo, Myounggho	Hanyang Univ.
Chu, Keonyup	Hanyang Univ.
Kim, Junsoo	Hanyang Univ.
FB4	308
Travel Demand and Emergency Management (Regular Session)	
Chair: Chen, Sei-Wang	National Taiwan Normal Univ.
11:00-11:20	FB4.1
<i>Evaluating Active Traffic and Demand Management Strategies for Congested Tourism Traffic Corridor</i> , pp. 2015-2020.	
Zheng, Hong	Univ. of Arizona
Nava, Eric	Univ. of Arizona
Chiu, Yi-Chang	Univ. of Arizona
11:20-11:40	FB4.2
<i>Risk Based Staged Evacuation Planning</i> , pp. 2021-2026.	
Li, Jian	Rutgers Univ.
Ozby, Kaan	Rutgers, The State Univ. of NJ
11:40-12:00	FB4.3
<i>A Method to Evaluate the Bus Line `s Sharing Influence to the Subway Stations and Subway Lines</i> , pp. 2027-2032.	
Ou, Dongxiu	Tongji Univ.
Liu, Lu	Tongji Univ.
Zhao, Dongliang	Tongji Univ.
Dong, Decun	Tongji Univ.
12:00-12:20	FB4.4
<i>Multi-Phase Time Series Models for Motorway Flow Forecasting</i> , pp. 2033-2038.	
Davarynejad, Mohsen	TU Delft
Wang, Yubin	TU Delft, Trinité Automation
Vrancken, Jos	Delft Univ. of Tech.
van den Berg, Jan	Delft Univ. of Tech.
12:20-12:40	FB4.5
<i>Influence of Heterogeneity of Driving Behavior under Exceptional Event on Network Performance by Simulations</i> , pp. 2039-2044.	

Tu, Huizhao	Tongji Univ.
Li, Hao	Tongji Univ.
Sun, Lijun	Tongji Univ.

12:40-13:00 FB4.6

A Low-Cost Distributed Instrumentation System for Monitoring, Identifying and Diagnosing Irregular Patterns of Behavior in Critical ITS Components, pp. 2045-2050.

Vorakitolan, Ekasit	Univ. of Oklahoma
Mould, Nicholas	Univ. of Oklahoma
Havlicek, Joseph	Univ. of Oklahoma
Barnes, Ronald	Univ. of Oklahoma
Stevenson, Alan	Oklahoma Department of Transportation:

FB5 311

Communications in ITS (Regular Session)

Chair: Havlicek, Joseph	Univ. of Oklahoma
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11:00-11:20 FB5.1

Cooperative Adaptive Cruise Control: Tradeoffs between Control and Network Specifications, pp. 2051-2056.

Oncu, Sinan	Eindhoven Univ. of Tech.
van de Wouw, Nathan	Eindhoven Univ. of Tech.
Nijmeijer, Henk	Eindhoven Univ. of Tech.

11:20-11:40 FB5.2

Geographic Load Balancing Routing in Hybrid Vehicular Ad Hoc Networks, pp. 2057-2062.

Wu, Di	Univ. of California, Irvine
Regan, Amelia	Univ. of California, Irvine

11:40-12:00 FB5.3

Field Trial and Study of Route-Tracking Beamforming Over High-Speed Railway, pp. 2063-2067.

Wang, Hung-Hsiang	Industrial Tech. Res. Inst.
Hou, Hsin-An	Industrial Tech. Res. Inst.

12:00-12:20 FB5.4

Peer-Based Communication for a Distributed, Virtual Traffic Management Center, pp. 2068-2073.

Kilani, Basel	Univ. of Oklahoma
Campbell, Patrick	Univ. of Oklahoma
Havlicek, Joseph	Univ. of Oklahoma
Tull, Monte	Univ. of Oklahoma
Stevenson, Alan	Oklahoma Department of Transportation
Barnes, Ronald	Univ. of Oklahoma

12:20-12:40 FB5.5

Improving Performance of DS/SS-IVC under Shadowing Environment Using LMS Adaptive Circular Array Antenna, pp. 2074-2079.

Yamamoto, Ken	Tokyo Univ. of Science
Ohno, Kohei	Tokyo Univ. of Science
Itami, Makoto	Tokyo Univ. of Science

12:40-13:00 FB5.6

Evaluation of V2V and V2I Mesh Prototypes Based on a Wireless Sensor Network, pp. 2080-2085.

Naranjo, Jose	Univ. Pol. de Madrid
Zato, José Gabriel	Univ. Pol. de Madrid
Redondo, Luis	ISIS Ingeniería
Oliva, Mario	Univ. Pol. de Madrid
Jiménez, Felipe	Univ. Pol. de Madrid
Gomez, Nuria	Univ. Pol. de Madrid

FB6 310

Dynamic Network Modeling and Optimization; Monitoring, Estimating, and Modeling Travel Time Reliability (Special Session)

Chair: Cantarella, Giulio Erberto	Univ. of Salerno
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Co-Chair: Zhou, Xuesong	Univ. of Utah
11:00-11:20	FB6.1
<i>Day-To-Day Dynamic Network Modeling and Optimization (I)</i> , pp. 2086-2092.	
Cantarella, Giulio Erberto	Univ. of Salerno
Velona', Pietro	Mediterranean Univ. of Reggio Calabria
Vitetta, Antonino	Mediterranean Univ. of Reggio Calabria
11:20-11:40	FB6.2
<i>Fixed Point Methods for Computing Within-Day Dynamic User Equilibrium (I)</i> , pp. 2093-2097.	
Friesz, Terry L.	Pennsylvania State Univ.
Neto, Pedro A.	Pennsylvania State Univ.
Meimand, Amir H.	Pennsylvania State Univ.
11:40-12:00	FB6.3
<i>Analysis and Modeling of the Effects of Information Accuracy on Travelers' Behavior (I)</i> , pp. 2098-2105.	
Bifulco, Gennaro Nicola	Univ. of Naples Federico II
Cantarella, Giulio Erberto	Univ. of Salerno
de Luca, Stefano	Univ. of Salerno
Di Pace, Roberta	Univ. of Salerno
12:00-12:20	FB6.4
<i>Multi-State Travel Time Reliability Model: Impact of Incidents on Travel Time Reliability (I)</i> , pp. 2106-2111.	
Park, Sangjun	Virginia Tech. Transportation Inst.
Rakha, Hesham A.	Virginia Tech.
Guo, Feng	Virginia Tech.
12:20-12:40	FB6.5
<i>Stochastic Modeling of Traffic Flow Breakdown Phenomenon: Application to Predicting Travel Time Reliability (I)</i> , pp. 2112-2117.	
Dong, Jing	Oak Ridge National Lab.
Mahmassani, Hani S.	Northwestern Univ.
12:40-13:00	FB6.6
<i>Quantifying Benefits of Traffic Information Provision under Stochastic Demand and Capacity Conditions: A Multi-Day Traffic Equilibrium Approach (I)</i> , pp. 2118-2123.	
Li, Mingxin	Univ. of Utah
Zhou, Xuesong	Univ. of Utah
Nagui, Roupail	North Carolina State Univ.
FB7	402
Artificial Transportation Systems and Simulation: Modelling and Architectural Issues (Special Session)	
Chair: Rossetti, Rosaldo	Univ. of Porto - Faculty of Engineering
11:00-11:20	FB7.1
<i>An Agent Methodology for Processes, the Environment, and Services (I)</i> , pp. 2124-2129.	
Sanchez Passos, Lúcio	Univ. do Porto - Faculdade de Engenharia
Rossetti, Rosaldo	LIACC - Univ. of Porto
11:20-11:40	FB7.2
<i>Implementation of Transit Signal Priority and Predictive Priority Strategies in ASC/3 Software-In-The-Loop Simulation (I)</i> , pp. 2130-2135.	
Zlatkovic, Milan	Univ. of Utah, Utah Traffic Lab.
Martin, Peter	Univ. of Utah, Utah Traffic Lab.
Tasic, Ivana	Univ. of Utah, Utah Traffic Lab.
11:40-12:00	FB7.3
<i>Modeling and Analyzing Transportation Systems Based on ACP Approach (I)</i> , pp. 2136-2141.	
Zhu, Fenghua	Inst. of Automation, Chinese Acad. of sciences
Wang, Fei-Yue	Univ. of Arizona
Li, Runmei	Inst. of Automation Chinese Acad. of Sciences
Lv, Yisheng	Chinese Acad. of Sciences
Chen, Songhang	Chinese Acad. of Sciences

Variable Speed Limits for Freeway Management and Control (Special Session)

Chair: Hegyi, Andreas	Delft Univ. of Tech.
Co-Chair: Papamichail, Ioannis	Tech. Univ. of Crete
11:00-11:20	FB8.1
<i>Model-Based Traffic and Emission Control Using PWA Models - a Mixed-Logical Dynamic Approach (I)</i> , pp. 2142-2147.	
Groot, Noortje	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Zegeye, Solomon K.	Delft Univ. of Tech.
Hellendoorn, Hans	Delft Univ. of Tech.
11:20-11:40	FB8.2
<i>METANET Model Improvement for Traffic Control (I)</i> , pp. 2148-2153.	
Lu, Xiao-Yun	Univ. of California, Berkeley
Qiu, Tony	Univ. of Alberta
Horowitz, Roberto	Univ. of California at Berkeley
Chow, Andy	Univ. Coll. London
Shladover, Steven E.	Univ. of California, Berkeley
11:40-12:00	FB8.3
<i>SPECIALIST-RM - Integrated Variable Speed Limit Control and Ramp Metering Based on Shock Wave Theory (I)</i> , pp. 2154-2159.	
Schelling, Ilse	Delft Univ. of Tech.
Hegyi, Andreas	Delft Univ. of Tech.
Hoogendoorn, Serge	Delft Univ. of Tech.
12:00-12:20	FB8.4
<i>Comparison of Local Feedback Controllers for the Mainstream Traffic Flow on Freeways Using Variable Speed Limits (I)</i> , pp. 2160-2167.	
Carlson, Rodrigo Castelan	Tech. Univ. of Crete
Papamichail, Ioannis	Tech. Univ. of Crete
Papageorgiou, Markos	Tech. Univ. of Crete
12:20-12:40	FB8.5
<i>Results of Field Trials with Dynamic Speed Limits in the Netherlands: Improving Throughput and Safety on the A12 Freeway (I)</i> , pp. 2168-2173.	
Jonkers, Eline	TNO
Wilmink, Isabel	TNO
Stoelhorst, Henk	Dutch Ministry of Transport, Public Works and WaterManagement
Schreuder, Marco	Dutch Ministry of Transport, Public Works and WaterManagement
Polderdijk, Suerd	Dutch Ministry of Transport, Public Works and WaterManagement
12:40-13:00	FB8.6
<i>Variable Speed Limits for Green Mobility (I)</i> , pp. 2174-2179.	
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.