

**2009 12th International IEEE
Conference on Intelligent
Transportation Systems
(ITSC 2009)**

**St. Louis, Missouri, USA
4 – 7 October 2009**

Pages 1-425



**IEEE Catalog Number: CFP09ITS-PRT
ISBN: 978-1-4244-5518-8**

Table of Contents

MoPL1	Grand EF
Plenary Keynote Talk (Plenary Session)	
09:00-10:00	MoPL1.1
<i>Smart Grid and Electric Transportation (I)*</i> . Venayagamoorthy, Ganesh Kumar	Missouri Univ. of Science and Tech.
MoBT1	Regency A
Advanced Safety Systems 1 (Regular Session)	
10:30-10:52	MoBT1.1
<i>Time to Contact Estimation Using Interest Points</i> , pp. 1-6. Mueller, Dennis Nunn, Christian Müller-Schneiders, Stefan Goermer, Steffen M. Pauli, Josef	Delphi Electronics & Safety Univ. of Wuppertal Delphi Corp. Univ. of Wuppertal Univ. Duisburg-Essen
10:52-11:14	MoBT1.2
<i>A Method for Multi-Target Range and Velocity Detection in Automotive FMCW Radar</i> , pp. 7-11. Hyun, Eugin Lee, Jong-Hun	Daegu Gyeongbuk Inst. of Science & Tech. Daegu Gyeongbuk Inst. of Science & Tech.
11:14-11:36	MoBT1.3
<i>Yawning Detection for Monitoring Driver Fatigue Based on Two Cameras</i> , pp. 12-17. Li, Lingling Chen, Yangzhou Li, Zhenlong	Beijing Univ. of Tech. Beijing Univ. of Tech. Beijing Univ. of Tech.
11:36-11:58	MoBT1.4
<i>Exploiting LIDAR-Based Features on Pedestrian Detection in Urban Scenarios</i> , pp. 18-23. Premebida, Cristiano Ludwig, Oswaldo Nunes, Urbano	Inst. of Systems and Robotics, Univ. of Coimbra Inst. of Systems and Robotics, Univ. of Coimbra Inst. of Systems and Robotics, Univ. of Coimbra
MoBT2	Regency B
Imaging and Image Analysis 1 (Regular Session)	
10:30-10:52	MoBT2.1
<i>Real-Time Approaching Vehicle Detection in Blind-Spot Area</i> , pp. 24-29. Chen, Chia-Tseng Chen, Yu-Song	Automotive Res. & Testing Center Automotive Res. & Testing Center
10:52-11:14	MoBT2.2
<i>Fog Detection System Based on Computer Vision Techniques</i> , pp. 30-35. Bronte, Sebastian Bergasa, Luis M. Fernández Alcantarilla, Pablo	Univ. de Alcalá Univ. de Alcalá Univ. de Alcalá
11:14-11:36	MoBT2.3
<i>Vision System for Identifying Road Signs Using Triangulation and Bundle Adjustment</i> , pp. 36-41. Krishnan, Anupama Lewis, Chris Dwight, Day	Kansas State Univ. Kansas State Univ. Kansas State Univ.
11:36-11:58	MoBT2.4
<i>Vision-Based Railroad Track Extraction Using Dynamic Programming</i> , pp. 42-47. Kaleli, Fatih Akgul, Yusuf Sinan	Bahcesehir Univ. Gebze Inst. of Tech.
MoBT3	Grand A
Geographic Information Systems in ITS (Regular Session)	
10:30-10:52	MoBT3.1
<i>Automatic Generation of Road Network Map from Massive GPS Vehicle Trajectories</i> , pp. 48-53. Shi, Wenhuan Shen, Shuhan Liu, Yuncai	Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ.
10:52-11:14	MoBT3.2
<i>Identification of Added Value ITS Services Using Concept Mapping Techniques</i> , pp. 54-59. Martínez-Torres, M. Rocío Díaz-Fernández, M. Carmen Toral-Marín, Sergio Barrero, Federico Cortés, Francisco	Univ. of Seville Univ. of Seville Univ. of Seville Univ. of Seville Univ. of Seville
11:14-11:36	MoBT3.3
<i>Methods on Dynamic Delineation of Intersections Based on Floating Car Data</i> , pp. 60-65. Xiong, Yingge Xu, Zhuoli	Tongji Univ. Tongji Univ.

11:36-11:58 MoBT3.4
 A Service Choice Model for Optimizing Taxi Service Delivery, pp. 66-71.
 Cheng, Shih-Fen Singapore Management Univ.
 Qu, Xin Singapore Management Univ.

MoBT4 Grand C
Traffic Theory for ITS (Regular Session)

10:30-10:52 MoBT4.1
 Stabilization of Traffic Flow Based on Multi-Anticipative Intelligent Driver Model, pp. 72-77.
 Chen, Xiqun Tsinghua Univ.
 Li, Ruimin Tsinghua Univ.
 Xie, Weijun Tsinghua Univ.
 Shi, Qixin Tsinghua Univ.

11:14-11:36 MoBT4.3
 Prediction of Traffic Density for Congestion Analysis under Indian Traffic Conditions, pp. 78-83.
 Padiath, Ameena Indian Inst. of Tech. Madras
 Vanajakshi, Lelitha Indian Inst. of Tech. Madras
 Subramanian, Shankar Indian Inst. of Tech. Madras
 Manda, Harishreddy Indian Inst. of Tech. Madras

11:36-11:58 MoBT4.4
 Detection of Urban Traffic Flows Synchronized Oscillations Using Spectral Envelope, pp. 84-89.
 Zhao, Tingting Tsinghua Univ.
 Hu, Jianming Tsinghua Univ.
 Zhang, Yi Tsinghua Univ.
 Li, Li Tsinghua Univ.
 Zhang, Zuo Tsinghua Univ.
 Li, Zhiheng Tsinghua Univ.

MoCT1 Regency A
Advanced Safety Systems 2 (Regular Session)

13:30-13:52 MoCT1.1
 Driver's Cognitive Distraction Detection Using Physiological Features by the AdaBoost, pp. 90-95.
 Miyaji, Masahiro Aichi Prefectural Univ.
 Oguri, Koji Aichi Prefectural Univ.
 Kawanaka, Haruki Aichi Prefectural Univ.

13:52-14:14 MoCT1.2
 Multi-Class Identification of Driver's Cognitive Distraction with Error-Correcting Output Coding (ECOC) Method, pp. 96-101.
 Nagase, Atsushi Aichi Prefectural Univ.
 Kawanaka, Haruki Aichi Prefectural Univ.
 Bhuiyan, Shoaib Suzuka Univ. of Medical Science
 Oguni, Koji Aichi Prefectural Univ.

14:14-14:36 MoCT1.3
 Vehicle Risks Assessment Using a Nokia N95, pp. 102-107.
 Reveriego, Gerardo Univ. de Málaga
 Urdiales, Cristina Univ. de Málaga
 Sandoval, Francisco Univ. de Málaga

14:36-14:58 MoCT1.4
 SmartLDWS: A Robust and Scalable Lane Departure Warning System for the Smartphones, pp. 108-113.
 Lan, Mars UCLA
 Rofouei, Mahsan UCLA
 Soatto, Stefano UCLA
 Sarrafzadeh, Majid UCLA

MoCT2 Regency B
Imaging and Image Analysis 2 (Regular Session)

13:30-13:52 MoCT2.1
 Video-Based Recognition of Unmarked Lanes Via Texture Interpretation and N-Level-Set-Fitting, pp. 114-119.
 Schindler, Andreas Univ. of Passau
 Lauren, Verena Univ. Passau

13:52-14:14 MoCT2.2
 Catadioptric Omnidirectional Vision Sensor Integration for Vehicle-Based Sensing, pp. 120-126.
 Vu, Anh Univ. of California-Riverside
 Barth, Matthew Univ. of California-Riverside

14:14-14:36 MoCT2.3
 Video Processing Techniques for Traffic Information Acquisition Using Uncontrolled Video Streams, pp. 127-133.
 Loureiro, Pedro Faculty of Engineering, Univ. of Porto
 Rossetti, Rosaldo LIACC - Univ. of Porto
 Braga, Rodrigo Artificial Intelligence and Computer Science Lab.

14:36-14:58 MoCT2.4
 Robust Ground Plane Estimation Based on Particle Filters, pp. 134-140.
 Linarth, Andre Guilherme Elektrot Automotive GmbH

Brucker, Manuel
Angelopoulou, Elli

Friedrich-Alexander Univ. Erlangen-Nuremberg
Friedrich-Alexander Univ. Erlangen-Nuremberg

MoCT3 Grand A
Energy/Environmental ITS (Special Session)

Organizer: Barth, Matthew Univ. of California-Riverside

13:30-13:52 MoCT3.1
One Million Plug-In Electric Vehicles on the Road by 2015, pp. 141-147.
Saber, Ahmed Missouri Univ. of Science and Tech.
Venayagamoorthy, Ganesh Kumar Missouri Univ. of Science and Tech.

13:52-14:14 MoCT3.2
Greenhouse Gas Emissions Reduction of Commuting in Beijing Olympic Games, pp. 148-153.
Dong, Shen Tsinghua Univ.
Shi, Qixin Tsinghua Univ.
Zhang, Lingge Environmental Defense Fund

14:14-14:36 MoCT3.3
Integration of Emission and Fuel Consumption Computing with Traffic Simulation Using a Distributed Framework, pp. 154-159.
Ma, Xiaoliang Royal Inst. of Tech.
Huang, Zhen Royal Inst. of Tech.

14:36-14:58 MoCT3.4
Arterial Velocity Planning Based on Traffic Signal Information under Light Traffic Conditions (I), pp. 160-165.
Mandava, Sindhura Univ. of California-Riverside
Boriboonsomsin, Kanok Univ. of California-Riverside
Barth, Matthew Univ. of California-Riverside

MoCT4 Grand C
Traveler Services Information (Regular Session)

14:14-14:36 MoCT4.3
Discrepancy in Real-Time Traveler Info Websites: Traffic Condition Estimation Based on Rough Set Theory, pp. 166-171.
Liu, Hao Res. Institute of Highway, Ministry of Transport
Zhang, Ke Chinese National Intelligent Transport System Center of Tech.

14:14-14:36 MoCT4.3
Calibration and Validation of PARAMICS for Freeway Using Toll Data, pp. 172-177.
Li, Zhe National ITS Res. Center, Res. Inst. of Highway, Min
Liu, Hao Res. Institute of Highway, Ministry of Transportation
Zhang, Ke Chinese National Intelligent Transport System Center of Tech.

14:36-14:58 MoCT4.4
Trajectory Learning and Analysis Based on Kernel Density Estimation, pp. 178-183.
Zhou, Jianying Key Lab. of Complex Systems and Intelligence Science
Wang, Kunfeng Inst. of Automation, Chinese Acad. of Sciences
Tang, Shuming Inst. of Automation, Chinese Acad. of Sciences
Wang, Fei-Yue Univ. of Arizona

MoCT5 Grand B
Vehicle Assist and Automation for Bus Rapid Transit (Plenary Session)

Organizer: Zhang, Wei-Bin Univ. of California at Berkeley

13:30-13:52 MoCT5.1
*USDOT's Demonstration and Deployment Programs on Vehicle Assist and Automation for Bus Rapid Transit (I)**.
Mortensen, Steven FTA's Office of Res.

13:52-14:14 MoCT5.2
*GPS Guidance and Augmentation Using VPS for Transit Applications (I)**.
Shankwitz, Craig Univ. of Minnesota

14:14-14:36 MoCT5.3
*Aided Navigation, GIS, and Intelligent Roadways (I)**.
Farrell, Jay Univ. of California-Riverside

14:36-14:58 MoCT5.4
*Magnetic Guidance, GPS Guidance and the Integration of the Two for Transit Vehicle Assist and Automation (I)**.
Tan, Han-Shue Univ. of California at Berkeley

MoDT1 Regency A
Advanced Safety Systems 3 (Regular Session)

15:30-15:52 MoDT1.1
Automatic Information Extraction of Traffic Panels Based on Computer Vision, pp. 184-189.
González, Álvaro Univ. of Alcalá
Bergasa, Luis M. Univ. of Alcalá
Gavilán Velasco, Miguel Univ. of Alcalá
Sotelo, Miguel A. Univ. of Alcalá
Herranz Cabrilla, Fernando Univ. of Alcalá
Fernandez Lopez, Carlos Univ. of Alcalá

15:52-16:14 MoDT1.2

<i>Road Surface Condition Identification Based on Statistical Pattern Recognition Method</i> , pp. 190-195.	General Motors Corp. General Motors/Quantech Global Service
Deng, Weiwen Zhao, Qingrong	
16:14-16:36	MoDT1.3
<i>Vehicle Recognition and TTC Estimation at Night Based on Spotlight Pairing</i> , pp. 196-201.	Univ. of Wuppertal Delphi Electronics & Safety Univ. of Wuppertal Delphi Electronics & Safety Univ. of Wuppertal
Goerner, Steffen M. Mueller, Dennis Hold, Stephanie Meuter, Mirko Kummert, Anton	
16:36-16:58	MoDT1.4
<i>Multi-Channel Lidar Processing for Lane Detection and Estimation</i> , pp. 202-207.	Chemnitz Univ. of Tech. Chemnitz Univ. of Tech. Chemnitz Univ. of Tech. DENSO Corp. DENSO Autom. Deutschland GmbH
Lindner, Philipp Richter, Eric Wanielik, Gerd Takagi, Kiyokazu Isogai, Akira	

MoDT2 Regency B
Imaging and Image Analysis 3 (Regular Session)

15:30-15:52	MoDT2.1
<i>An Evolutionary Optimized Vehicle Tracker in Collaboration with a Detection System</i> , pp. 208-213.	Univ. of Wuppertal Univ. of Wuppertal
Haselhoff, Anselm Kummert, Anton	
15:52-16:14	MoDT2.2
<i>Real-Time Highway Traffic Information Extraction Based on Airborne Video</i> , pp. 214-219.	Wuhan Univ. Wuhan Univ. Wuhan Univ. South-Central Univ. for Nationalities
Li, Qingquan Lei, Bo Yu, Yang Hou, Rui	
16:14-16:36	MoDT2.3
<i>A Hardware Implementation of Pyramidal KLT Feature Tracker for Driving Assistance Systems</i> , pp. 220-225.	Sogang Univ. Sogang Univ. Sogang Univ.
Jang, Wonjun Oh, Sungchan Kim, Gyeonghwan	
16:36-16:58	MoDT2.4
<i>An Experiment of a 3D Real-Time Robust Visual Odometry for Intelligent Vehicles</i> , pp. 226-231.	Heudiasyc Lab. Univ. de Tech. de Compiègne Univ. de Tech. de Compiègne Univ. de Tech. de Compiègne
Rodriguez Florez, Sergio Alberto Fremont, Vincent Bonnifait, Philippe	

MoDT3 Grand A
ITS Operational Strategies and the Environment (Plenary Session)

15:30-15:52	MoDT3.1
<i>Environmentally-Beneficial Intelligent Transportation Systems (I)*.</i>	Univ. of California-Riverside
Barth, Matthew	
15:52-16:14	MoDT3.2
<i>The Potential Role That Transportation Systems Management and Operations Can Play in Reducing Greenhouse Gas Emissions (I)*.</i>	Iteris, Inc.
Neudorff, Louis	
16:14-16:36	MoDT3.3
<i>ITS, Enabler for a Sustainable Environment -- a California PATH Program Perspective (I)*.</i>	Univ. of California at Berkeley
Zhang, Wei-Bin	

MoDT4 Grand C
Travel Behavior under ITS (Regular Session)

15:30-15:52	MoDT4.1
<i>Analysis of Congestion Points Based on Probe Car Data</i> , pp. 232-236.	Hitachi (China) Res. & Development Corp. Hitachi (China) Res. & Development Corp. Hitachi (China) Res. & Development Corp.
Li, Man Zhang, Yuhe Wang, Wenjia	
15:52-16:14	MoDT4.2
<i>Advanced Framework for Illumination Invariant Traffic Density Estimation</i> , pp. 237-242.	Univ. of New South Wales NICTA
Janney, Pranam Geers, Donald Glenn	
16:14-16:36	MoDT4.3
<i>Vehicle Behavior Understanding Based on Movement String</i> , pp. 243-248.	BeiHang Univ. BeiHang Univ. BeiHang Univ. BeiHang Univ. BeiHang Univ.
Hao, JiuYue Sheng, Hao Li, Chao Xiong, Zhang Hussain, Ejaz	

16:36-16:58 MoDT4.4
Improved Multi-Level Pedestrian Behavior Prediction Based on Matching with Classified Motion Patterns, pp. 249-254.
 Chen, Zhuo Univ. of Hong Kong
 Yung, Nelson H. C. Univ. of Hong Kong

TuAT1 Regency A
Topics in ITS 1 (Regular Session)

08:30-08:52 TuAT1.1
Multi-Sensor Integration in the Vehicular System Using the IEEE1451 Std.: A Case Study, pp. 255-260.
 Cortés, Francisco Univ. of Seville
 Barrero, Federico Univ. of Seville
 Toral-Marín, Sergio Univ. of Seville
 Prieto, Joel Univ. of Seville
 Guevara, Jean Catholic Univ. of Asunción, Paraguay

08:52-09:14 TuAT1.2
Road Traffic Estimation with Signal Matching in Mobile Phone Using Large-Size Database, pp. 261-266.
 Promnoi, Sunisa King's Mongkut Univ. of Tech. Thonburi
 Tangamchit, Poj King's Mongkut Univ. of Tech. Thonburi
 Pattara-atikom, Wasan National Electronics and Computer Tech. Center

09:14-09:36 TuAT1.3
Short-Time OD Matrix Estimation for a Complex Junction Using Fuzzy-Timed High-Level Petri Nets, pp. 267-272.
 Biletska, Krystyna UMR CNRS 6599 Heudiasyc, Univ. de Tech. de Compiègne
 Masson, Marie-Hélène UMR CNRS 6599 Heudiasyc and Univ. de Picardie Jules Verne
 Denoeux, Thierry UMR CNRS 6599 Heudiasyc, Univ. de Tech. de Compiègne
 Midenet, Sophie INRETS (The French National Inst. for Transport and Safety R

09:36-09:58 TuAT1.4
A Holistic Framework for the Study of Urban Traces and the Profiling of Urban Processes and Dynamics, pp. 273-278.
 Vaccari, Andrea Massachusetts Inst. of Tech.
 Liu, Liang Massachusetts Inst. of Tech.
 Biderman, Assaf Massachusetts Inst. of Tech.
 Ratti, Carlo massachusetts Inst. of Tech.
 Pereira, C., Francisco Univ. de Coimbra
 Oliveirinha, Joao Univ. de Coimbra
 Gerber, Alexandre AT&T Lab. Res.

TuAT2 Regency B
Vision: Surveillance (Regular Session)

08:30-08:52 TuAT2.1
Pedestrian Tracking across Panning Camera Network, pp. 279-284.
 Fujimura, Kaichi Inst. of Industrial Science the Univ. of Tokyo
 Kamijo, Shunsuke Univ. of Tokyo
 Hyodo, Yasuhide Inst. of Industrial Science the Univ. of Tokyo

08:52-09:14 TuAT2.2
Video-Based Traffic Monitoring at Day and Night, pp. 285-290.
 Robert, Kostia Adrien NICTA

09:14-09:36 TuAT2.3
Feature-Based Probabilistic Data Association (FBPDA) for Visual Multi-Target Detection and Tracking under Occlusions and Split and Merge Effects, pp. 291-298.
 Grinberg, Michael IITB
 Ohr, Florian Fraunhofer Inst. für Informations- und Datenverarbeitung
 Beyerer, Jürgen Fraunhofer Inst. Inf. & Data IITB

09:36-09:58 TuAT2.4
Counting Pedestrians and Bicycles in Traffic Scenes, pp. 299-304.
 Somasundaram, Guruprasad Univ. of Minnesota
 Morellas, Vassilios Univ. of Minnesota
 Papanikolopoulos, Nikos Univ. of Minnesota
 Austin, Lisa Minnesota Department of Transportation

TuAT3 Grand A
Cooperative Systems (Regular Session)

08:30-08:52 TuAT3.1
Design of an Integrated System Solution for Urban Vehicle Localization, pp. 305-310.
 Wei, Bing Hong Kong Pol. Univ.

08:52-09:14 TuAT3.2
Experimental Characterization of DSRC Signal Strength Drops, pp. 311-315.
 Miucic, Radovan Honda R&D Americas, Inc.

09:14-09:36 TuAT3.3
Multi-Agent Control of Traffic Networks: Algorithm and Case Study, pp. 316-321.
 van Katwijk, Ronald Theodoor TNO
 De Schutter, Bart Delft Univ. of Tech.
 Hellendoorn, Hans Delft Univ. of Tech.

09:36-09:58		TuAT3.4
<i>An Approach to Simulate Autonomous Vehicles in Urban Traffic Scenarios</i> , pp. 322-327.		
Figueiredo, Miguel	Faculty of Engineering, Univ. of Porto	
Rossetti, Rosaldo	LIACC - Univ. of Porto	
Braga, Rodrigo	Artificial Intelligence and Computer Science Lab.	
Reis, Luis Paulo	Faculty of Engineering, Univ. of Porto	

TuAT4 Grand C

Public Transportation Management (Regular Session)

08:30-08:52		TuAT4.1
<i>Modeling Single-Route Bus Service with Information Environment: A Multi-Agent Based Approach</i> , pp. 328-333.		
An, Jian	Tongji Univ.	
Liu, Haode	Tongji Univ.	
Xiaoguang, Yang	Tongji Univ.	
Teng, Jing	Tongji Univ.	
08:52-09:14		TuAT4.2
<i>Hub Nodes Identification in Public Transportation Networks Using Markov Chain Model</i> , pp. 334-339.		
Gao, Lianxiang	Beijing Univ. of Posts & Telecommunications, Yunnan Nationalities	
Liang, Hong	Yunnan Univ.	
09:14-09:36		TuAT4.3
<i>Monte-Carlo Bus Regulation</i> , pp. 340-345.		
Cazenave, Tristan	Univ. Paris-Dauphine	
Balbo, Flavien	Univ. Paris-Dauphine	
Pinson, Suzanne	Univ. Paris-Dauphine	
09:36-09:58		TuAT4.4
<i>Space and Time-Dependant Bus Accessibility: A Case Study in Rome</i> , pp. 346-351.		
Pinelli, Fabio	ISTI-CNR, PISA	
Hou, Anyang	Massachusetts Inst. of Tech.	
Calabrese, Francesco	Massachusetts Inst. of Tech.	
Nanni, Mirco	Council National Res.	
Zegras, Chris	Massachusetts Inst. of Tech.	
Ratti, Carlo	massachusetts Inst. of Tech.	

TuAT5 Grand B

Intelligent Structural Health and Safety Monitoring (Special Session)

Organizer: Smith, Scott	Univ. of Arkansas	
Organizer: Wu, Jingxian	Univ. of Arkansas	
Organizer: Sedigh, Sahra	Missouri Univ. of Science and Tech.	
08:30-08:52		TuAT5.1
<i>Design of a Flood Prediction System (I)</i> , pp. 352-357.		
Al-Assadi, Waleed	Missouri Univ. of Science and Tech.	
Gandla, Sandeep	Missouri Univ. of Science and Tech.	
Sedigh, Sahra	Missouri Univ. of Science and Tech.	
Dugganapally, Indira	Missouri Univ. of Science and Tech.	
08:52-09:14		TuAT5.2
<i>Recent Enhancements to the SmartBrick Structural Health Monitoring Platform (I)</i> , pp. 358-363.		
Harms, Tyler	Missouri Univ. of Science and Tech.	
Bastianini, Filippo	Sestosensor, Metalmobile SRL	
Sedigh, Sahra	Missouri Univ. of Science and Tech.	
09:14-09:36		TuAT5.3
<i>Structural Health Monitoring and Structural Identification for Long-Span Bridges (I)</i> , pp. 364-369.		
Grimmelsman, Kirk	Univ. of Arkansas	
09:36-09:58		TuAT5.4
<i>Peak Strain Detection in EFPI Sensors Via Direct Phase Difference Synthesis (I)</i> , pp. 370-374.		
Mitchell, Kyle	Saint Louis Univ.	
Ebel, William	Saint Louis Univ.	
09:36-09:58		TuAT5.5
<i>Integrated Software-Hardware Design for Ultra-LowPower Infrastructure Monitoring (I)</i> , pp. 375-382.		
Wu, Jingxian	Univ. of Arkansas	
Smith, Scott	Univ. of Arkansas	
09:36-09:58		TuAT5.6
<i>Structural Identification Using a Low-Cost Search Method (I)</i> , pp. 383-387.		
Fonda, James W.	The Boeing Company	
Watkins, Steve E.	Missouri Univ. of Science and Tech.	

TuBT1 Regency A

Collision Avoidance 1 (Regular Session)

10:30-10:52		TuBT1.1
<i>A Research on Risk Assessment and Warning Strategy for Intersection Collision Avoidance System</i> , pp. 388-393.		
Zhu, Tong	Tongji Univ.	
Xu, Jian	Tongji Univ.	

Bai, Yu	Tongji Univ.
Yang, Xiaoguang	Tongji Univ.
10:52-11:14	TuBT1.2
<i>Stereovision-Based 3D Obstacle Detection for Automotive Safety Driving Assistance</i> , pp. 394-399.	
Ventroux, Nicolas	CEA LIST
Schmit, Renaud	CEA LIST
Pasquet, Frédéric	CEA LIST
Viel, Pierre-Emmanuel	CEA LIST
Guyetant, Stéphane	CEA LIST
11:14-11:36	TuBT1.3
<i>Multiple Target Detection and Tracking by Interacting Joint Probabilistic Data Association Filter and Bayesian Networks: Application to Real Data</i> , pp. 400-407.	
Jida, Bassem	Univ. Lille Nord de France
Noyer, Jean Charles	Univ. Lille Nord de France
Lherbier, Régis	Univ. Lille Nord de France
Wahl, Martine	INRETS
11:36-11:58	TuBT1.4
<i>A Real-Time Rear View Camera Based Obstacle Detection</i> , pp. 408-413.	
Ma, Guanglin	Delphi China Tech. Center Co., Ltd.
Dwivedi, Manoj	Delphi Automotive Systems, Tech. Centre India,
Li, Ran	Delphi
Sun, Chong	Delphi China Tech. Center Co., Ltd.
Kummert, Anton	Univ. of Wuppertal

TuBT2 Regency B

Vision Enhancement (Regular Session)

10:30-10:52	TuBT2.1
<i>Night-Time Vehicle Classification with an Embedded Vision System</i> , pp. 414-419.	
Litzenberger, Martin	AIT Austrian Inst. of Tech. GmbH
Donath, Nikolaus	Austrian Res. Centers GmbH - ARC
Gritsch, Gerhard	Austrian Res. Centers GmbH - ARC
Kohn, Bernhard	Austrian Res. Centers GmbH - ARC
10:52-11:14	TuBT2.2
<i>A Novel Approach for the Online Initial Calibration of Extrinsic Parameters for a Car Mounted Camera</i> , pp. 420-425.	
Hold, Stephanie	Univ. of Wuppertal
Goermer, Steffen M.	Univ. of Wuppertal
Meuter, Mirko	Delphi Electronics & Safety
Müller-Schneiders, Stefan	Delphi Corp.
Kummert, Anton	Univ. of Wuppertal
11:14-11:36	TuBT2.3
<i>A Validation Tool for Traffic Signs Recognition Systems</i> , pp. 426-431.	
Marenco, Daniele	Magneti Marelli
Fontana, Davide	Magneti Marelli
Ghisio, Guido	Magneti Marelli Electronics Systems
Monchiero, Gianluca	company
Cardarelli, Elena	Univ. di Parma
Medici, Paolo	Univ. di Parma
Porta, Pier Paolo	Univ. di Parma
11:36-11:58	TuBT2.4
<i>Trainable Classifier-Fusion Schemes: An Application to Pedestrian Detection</i> , pp. 432-437.	
Ludwig, Oswaldo	ISR-Inst. of Systems and Robotics-UC
Delgado, David Emanuel Ribeiro	Univ. of Coimbra
Gonçalves, Valter	Univ. of Coimbra
Nunes, Urbano	Inst. for Systems and Robotics

TuBT3 Grand A

Multi-Sensor Fusion 1 (Regular Session)

10:30-10:52	TuBT3.1
<i>A Sensor Independent Probabilistic Fusion System for Driver Assistance Systems</i> , pp. 438-443.	
Munz, Michael	Univ. of Ulm
Dietmayer, Klaus Christian Jürgen	Univ. of Ulm
Maehlich, Mirko	Daimler AG
10:52-11:14	TuBT3.2
<i>A Data Fusion Based Approach for Evaluation of Material Loss in Corroded Aluminum Panels</i> , pp. 444-449.	
De, Soumya	Missouri Univ. of Science and Tech.
Gupta, Kapil	Missouri Univ. of Science and Tech.
Stanley, Joe	Missouri Univ. of Science and Tech.
Palmer, Donald	The Boeing Company
Zoughi, Reza	Missouri Univ. of Science and Tech.
11:14-11:36	TuBT3.3
<i>Advanced Occupancy Grid Techniques for Lidar Based Object Detection and Tracking</i> , pp. 450-454.	

Richter, Eric	Chemnitz Univ. of Tech.
Lindner, Philipp	Chemnitz Univ. of Tech.
Wanielik, Gerd	Chemnitz Univ. of Tech.
Takagi, Kiyokazu	DENSO Corp.
Isogai, Akira	DENSO Autom. Deutschland GmbH
11:36-11:58	TuBT3.4
<i>Multi-Target Tracking for Merged Measurements of Automotive Narrow-Band Radar Sensors</i> , pp. 455-460.	
Zuther, Sebastian	Daimler AG
Biggel, Matthias	Daimler AG
Muntzinger, Marc	Daimler AG
Dietmayer, Klaus Christian Jürgen	Univ. of Ulm
TuBT4	Grand C
Travel Information and Guidance 1 (Regular Session)	
10:30-10:52	TuBT4.1
<i>Short-Term Traffic Flow Forecasting of Urban Network Based on Dynamic STARIMA Model</i> , pp. 461-466.	
Min, Xinyu	Tsinghua Univ.
Hu, Jianming	Tsinghua Univ.
Chen, Qi	Tsinghua Univ.
Zhang, Tongshuai	Tsinghua Univ.
Zhang, Yi	Tsinghua Univ.
10:52-11:14	TuBT4.2
<i>Low-Latency Indoor Localization Using Bluetooth Beacons</i> , pp. 467-473.	
Chawathe, Sudarshan S.	Univ. of Maine
11:14-11:36	TuBT4.3
<i>Route Classification in Travel Time Estimation Based on Cellular Network Signaling</i> , pp. 474-479.	
Gundlegård, David	Linköping Univ.
Karlsson, Johan M.	Linköping Univ.
11:36-11:58	TuBT4.4
<i>Improving Digital Maps through GPS Data Processing</i> , pp. 480-485.	
Freitas, Tiago	Faculty of Engineering, Univ. of Porto
Coelho, António	Faculty of Engineering, Univ. of Porto
Rossetti, Rosaldo	LIACC - Univ. of Porto
TuCT1	Regency A
Collision Avoidance 2 (Regular Session)	
13:30-13:52	TuCT1.1
<i>An Improved Adaboost Learning Scheme Using LDA Features for Object Recognition</i> , pp. 486-491.	
Nunn, Christian	Univ. of Wuppertal
Mueller, Dennis	Delphi Electronics & Safety
Meuter, Mirko	Delphi Electronics & Safety
Müller-Schneiders, Stefan	Delphi Corp.
Kummert, Anton	Univ. of Wuppertal
13:52-14:14	TuCT1.2
<i>Advanced Motorcycle-Infrastructure-Driver Roll Angle Profile for Loss Control Prevention</i> , pp. 492-497.	
Slimi, Hamid	Univ. d'Evry Val d'Essonne
Arioui, Hichem	Univ. d'Evry
Mammar, Saïd	INRETS
Nouveliere, Lydie	IBISC/Univ. d'Evry - LCPC/LMIC
14:14-14:36	TuCT1.3
<i>Out-Of-Sequence Measurement Processing for an Automotive Pre-Crash Application</i> , pp. 498-503.	
Muntzinger, Marc	Daimler AG
Schröder, Florian	Daimler AG
Zuther, Sebastian	Daimler AG
Dietmayer, Klaus Christian Jürgen	Univ. of Ulm
14:36-14:58	TuCT1.4
<i>Irail: A Novel Architecture towards Autonomous Locomotives and Intelligent Infrastructures for Developing Countries</i> , pp. 504-509.	
Sabaragamu Korallalage, Krishan H.S	Saitama Univ.
Yoshiura, Noriaki	Saitama Univ.
TuCT2	Regency B
Traffic Control: Signalization 1 (Regular Session)	
13:30-13:52	TuCT2.1
<i>Advanced Real-Time Intersection Data Collection System for Safety Evaluation</i> , pp. 510-515.	
Abbas, Montasir	Virginia Tech.
Li, Pengfei	Sebago Tech. Inc.
13:52-14:14	TuCT2.2
<i>A Generic Evaluation Method for Traffic Signal Phase Truncation Installation at Signalized Intersections</i> , pp. 516-521.	
Li, Pengfei	Sebago Tech. Inc.
Abbas, Montasir	Virginia Tech.
14:14-14:36	TuCT2.3

<i>Full Automated Advanced Demand Signals II Scheme</i> , pp. 522-527.	Saitama Univ. Saitama Univ.
Aso, Toshimasa Hasegawa, Takaaki	
14:36-14:58	TuCT2.4
<i>Urban Traffic Signal Control Network Automatic Partitioning Using Laplacian Eigenvectors</i> , pp. 528-532.	Tongji Univ. Univ. of Arizona Tongji Univ.
Ma, Ying-Ying Chiu, Yi-Chang Yang, Xiaoguang	
TuCT3	Grand A
Multi-Sensor Fusion 2 (Regular Session)	
13:30-13:52	TuCT3.1
<i>Real-Time Multi-Sensor Multi-Source Network Data Fusion Using Dynamic Traffic Assignment Models</i> , pp. 533-538.	Massachusetts Inst. of Tech. National Tech. Univ. of Athens Massachusetts Inst. of Tech. Massachusetts Inst. of Tech. Brisa Brisa, Auto-Estradas de Portugal, SA
Huang, Enyang Antoniou, Constantinos Wen, Yang Ben-Akiva, Moshe Lopes, Jorge Bento, João	
13:52-14:14	TuCT3.2
<i>Lane Level Positioning Using Particle Filtering</i> , pp. 539-544.	LCPC LCPC Ec. Centrale de Nantes LCPC
Selloum, Ahmed Bétaille, David Le Carpentier, Éric Peyret, Francois	
14:14-14:36	TuCT3.3
<i>A Multi Sensor System to Evaluate Driving Behavior in Curves</i> , pp. 545-549.	Fraunhofer IITB
Hoepken, Marc	
14:36-14:58	TuCT3.4
<i>Integrity Provision for Map-Matched Positioning of Road Vehicles at Lane Level</i> , pp. 550-555.	Univ. of Murcia 1, Tech. Univ. of Cartagena 2 LCPC LCPC
Toledo-Moreo, Rafael Bétaille, David Peyret, Francois	
TuCT4	Grand C
Travel Information and Guidance 2 (Regular Session)	
13:30-13:52	TuCT4.1
<i>Towards a Route Planner Capable of Dealing with Complex Bipolar Preferences</i> , pp. 556-561.	Irisa-Enssat Irisa-Enssat Irisa-Enssat Enssat, Univ. Rennes 1
Mokhtari, Amine Pivert, Olivier Hadjali, Allel Bosc, Patrick	
13:52-14:14	TuCT4.2
<i>Dynamic Traffic Assignment Model Considering Drivers' Unfamiliarity with Network Layout</i> , pp. 562-569.	Texas Southern Univ. California Department of Transportation Texas Southern Univ.
Qiao, Fengxiang Zeng, Yan Yu, Lei	
14:14-14:36	TuCT4.3
<i>Dynamic Fastest Paths with Multiple Unique Destinations (DynFast-MUD) - a Specialized Traveling Salesman Problem with Intermediate Cities</i> , pp. 570-575.	Univ. of Alaska, Anchorage Univ. of Alaska, Anchorage
Miller, Jeffrey Ali, Muhammad	
14:36-14:58	TuCT4.4
<i>Optimal Routing for Intelligent Vehicle Highway Systems Using a Macroscopic Traffic Flow Model</i> , pp. 576-581.	Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech.
Baskar, Lakshmi Dhevi De Schutter, Bart Hellendoorn, Hans	
TuDT1	Regency A
Automated Vehicle Operation (Regular Session)	
15:30-15:52	TuDT1.1
<i>A Novel Approach to Lane Detection and Tracking</i> , pp. 582-587.	Delphi Electronics & Safety Delphi Corp. Delphi Electronics & Safety Univ. of Wuppertal Univ. of Wuppertal Univ. of Wuppertal
Meuter, Mirko Müller-Schneiders, Stefan Mika, Adalbert Nunn, Christian Hold, Stephanie Kummert, Anton	
15:52-16:14	TuDT1.2
<i>Pedestrian Detection by On-Board Camera Using Collaboration of Inter-Layer Algorithm</i> , pp. 588-595.	Univ. of Tokyo
Sen, Bipul Kumar	

Fujimura, Kaichi Kamijo, Shunsuke	Inst. of Industrial Science the Univ. of Tokyo Univ. of Tokyo	
16:14-16:36		TuDT1.3
<i>Improving Accuracy for Ego Vehicle Motion Estimation Using Epipolar Geometry</i> , pp. 596-602.		
Nedevschi, Sergiu Golban, Catalin Mitran, Cosmin	Tech. Univ. of Cluj-Napoca Tech. Univ. of Cluj-Napoca Tech. Univ. of Cluj-Napoca	
16:36-16:58		TuDT1.4
<i>Tracking and Detection of Lane and Vehicle Integrating Lane and Vehicle Information Using PDAF Tracking Model</i> , pp. 603-608.		
Hung, Ssu-Ying Chan, Yi-Ming Lin, Bin-Feng Huang, Shih-Shih Hsiao, Pei-Yung Fu, Li-Chen	National Taiwan Univ. National Taiwan Univ. National Taiwan Univ. National Taiwan Univ. National Univ. of Kaohsiung National Taiwan Univ.	
TuDT2		Regency B
Traffic Control: Signalization 2 (Regular Session)		
15:30-15:52		TuDT2.1
<i>Modeling and Signalizing Intersections for Large-Scale Transportation Simulation Network</i> , pp. 609-614.		
Ou, Dongxiu Balmer, Micheal Liu, Hu Shi, Lijuan	Tongji Univ. ETH, Zurich, Switzerland ZTE Co. Ltd Tongji Univ.	
15:52-16:14		TuDT2.2
<i>Dynamic Flow Equilibrium for Flow-Responsive Signal Settings and Time-Dependent Traffic Assignment</i> , pp. 615-620.		
Chen, Li-Wen Hu, Ta-Yin	National Cheng Kung Univ. National Cheng Kung Univ.	
16:14-16:36		TuDT2.3
<i>Autonomous Vehicle Sequencing Algorithm at Isolated Intersections</i> , pp. 621-626.		
Yan, Fei Dridi, Mahjoub El Moudni, Abdellah	Univ. de Tech. de Belfort-Montbéliard Univ. de Tech. de Belfort-Montbéliard Univ. de Tech. de Belfort-Montbéliard	
16:36-16:58		TuDT2.4
<i>Red Light Running Prediction for Dynamic All-Red Extension at Signalized Intersection</i> , pp. 627-631.		
Wang, Lanjun Zhang, Liping Zhang, Wei-Bin Zhou, Kun	Tsinghua Univ. Univ. of California, Berkeley Univ. of California, Berkeley Univ. of California, Berkeley	
TuDT3		Grand A
Smart or Intelligent Sensor Systems (Regular Session)		
15:30-15:52		TuDT3.1
<i>Modeling of Range Sensing and Object Detection for Vehicle Active Safety</i> , pp. 632-637.		
Deng, Weiwen Zhao, Qingrong	General Motors Corp. General Motors/Quantech Global Service	
15:52-16:14		TuDT3.2
<i>Maximum-Likelihood Speed Estimation Using Vehicle-Induced Magnetic Signatures</i> , pp. 638-643.		
Ernst, Joseph M. Ndoye, Mandoye Krogmeier, James V. Bullock, Darcy	Purdue Univ. Purdue Univ. Purdue Univ. Purdue Univ.	
16:14-16:36		TuDT3.3
<i>A Recursive Multi-Scale Correlation-Averaging Algorithm for Synchronization and Fusion of Independent Pavement Roughness Measurements</i> , pp. 644-649.		
Ndoye, Mandoye Barker, Alan M. Krogmeier, James V. Bullock, Darcy	Purdue Univ. Purdue Univ. Purdue Univ. Purdue Univ.	
16:36-16:58		TuDT3.4
<i>Transmission Quality Evaluation of Tire Pressure Monitoring Systems</i> , pp. 650-654.		
Cheikh, Mohamed Tartarin, Jean Guy David, Jacques Kessler, Sebastien Morin, Alexis	LAAS Univ. de Toulouse, CNRS, LAAS Univ. de Toulouse, CNRS, LAPLACE Continental Automotive Continental Automotive	
TuDT4		Grand C
Travel Information and Guidance 3 (Regular Session)		
15:30-15:52		TuDT4.1
<i>Bus Travel Time Prediction Model with ϵ-Support Vector Regression</i> , pp. 655-660.		

Wang, Jingnan	Beijing Jiaotong Univ.
Chen, Xumei	Beijing Jiaotong Univ.
Guo, Shuxia	Beijing Jiaotong Univ.
15:52-16:14	TuDT4.2
<i>A Microscopic Simulation-Based Decision Support System to Develop Changeable Message Sign Alternatives</i> , pp. 661-665.	
Sun, Dazhi	Texas A&M Univ. - Kingsville
Sun, Lin	Texas A&M Univ. - Kingsville
Ravoola, Pranay K	Texas A&M Univ. - Kingsville
Zhao, Shuai	Texas A&M Univ. - Kingsville
16:14-16:36	TuDT4.3
<i>Empirical Studies of Unblocked Index for Urban Freeway Traffic Flow States</i> , pp. 666-671.	
Yuan, Yueming	Beijing Jiaotong Univ.
Guan, Wei	Beijing Jiaotong Univ.
16:36-16:58	TuDT4.4
<i>Prediction Aggregation of Remote Traffic Microwave Sensors Speed and Volume Data</i> , pp. 672-678.	
Junger, John	Univ. of Oklahoma
Barnes, Ron	Univ. of Oklahoma
Havlicek, Joseph	Univ. of Oklahoma
Tull, Monte	Univ. of Oklahoma

TuDT5

Grand B

Open Source Software for High-Impact, Low-Cost ITS (Plenary Session)

Organizer: Havlicek, Joseph	Univ. of Oklahoma
15:30-15:52	TuDT5.1
<i>Open Source Software for Large Scale ITS Systems Integration in the National Capital Region--What Worked and What Didn't (I)*</i> .	
Pack, Michael L.	Univ. of Maryland Center for Advanced Transportation Tech.
15:52-16:14	TuDT5.2
<i>Traffic Counts Via Cellular Broadband Using Open Source Software (I)*</i> .	
Refai, Hazem H.	Univ. of Oklahoma
16:14-16:36	TuDT5.3
<i>Benefits and Costs from the Caltrans IRIS Open-Source Demonstration Study (I)*</i> .	
Darter, Michael T.	AHMCT, Univ. of California, Davis
Lasky, Ty A.	AHMCT, Univ. of California, Davis
Ravani, Bahram	AHMCT, Univ. of California, Davis
16:36-16:58	TuDT5.4
<i>Designing the Oklahoma Statewide ITS Around Free and Open Source Software (I)*</i> .	
Campbell, Adrian P.	Intelligent Transportation Systems Lab. Univ. of Oklahoma

WeAT1

Regency A

Optimization and Control: Theory and Modeling (Regular Session)

08:30-08:52	WeAT1.1
<i>Hierarchical Route Choice Control for Baggage Handling Systems</i> , pp. 679-684.	
Tarau, Alina	Delft Univ. of Tech.
De Schutter, Bart	Delft Univ. of Tech.
Hellendoorn, Hans	Delft Univ. of Tech.
08:52-09:14	WeAT1.2
<i>Design of Fault Tolerant Controllers in Parallel Parking Systems</i> , pp. 685-690.	
Qu, Yizhi	Purdue School of Engineering and Tech. IUPUI
Li, Lingxi	Purdue School of Engineering and Tech. IUPUI
Chen, Yaobin	Purdue School of Engineering and Tech. IUPUI
Dai, Yaping	Beijing Inst. of Tech.
09:14-09:36	WeAT1.3
<i>Study on Fast Model Predictive Controllers for Large Urban Traffic Networks</i> , pp. 691-696.	
Lin, Shu	Shanghai Jiao Tong Univ.
De Schutter, Bart	Delft Univ. of Tech.
Xi, Yugeng	Shanghai Jiao Tong Univ.
Hellendoorn, Hans	Delft Univ. of Tech.
09:36-09:58	WeAT1.4
<i>Optimal Path in Dynamic and Stochastic Networks</i> , pp. 697-702.	
Berradia, Tahar	IRSEEM-ESIGELEC
Mouzna, Joseph	IRSEEM-ESIGELEC

WeAT2

Regency B

ITS Communications (Regular Session)

08:30-08:52	WeAT2.1
<i>Wireless Communication-Based Measurement of Vehicle Speed and Traffic Volume</i> , pp. 703-708.	
Doan, Quoc Chuyen	IRSEEM/ESIGELEC
Berradia, Tahar	IRSEEM/ESIGELEC
Mouzna, Joseph	IRSEEM/ESIGELEC
09:14-09:36	WeAT2.3

<i>Providing VANET Position Integrity through Filtering</i> , pp. 709-714.	Old Dominion Univ. Old Dominion Univ. Old Dominion Univ.
Yan, Gongjun Chen, Xingwang Olariu, Stephan	
09:36-09:58	WeAT2.4
<i>Performance of MAC Protocols in Linear VANETs under Different Attenuation and Fading Conditions</i> , pp. 715-720.	Ec. Normale Supérieure INRIA INRIA
Blaszczyszyn, Barłomiej Muhlethaler, Paul Toor, Yasser	
WeAT3	Grand A
Simulation and Modeling 1 (Regular Session)	
08:52-09:14	WeAT3.2
<i>An Indoor Intelligent Transportation Testbed for Urban Traffic Scenarios</i> , pp. 721-726.	Ohio State Univ. Ohio State Univ. Ohio State Univ. Ohio State Univ. Ohio State Univ.
Biddlestone, Scott Kurt, Arda Vernier, Michael Redmill, Keith Ozguner, Umit	
09:14-09:36	WeAT3.3
<i>Simulation-Based Travel Time Prediction Model for Traffic Corridors</i> , pp. 727-732.	National Cheng Kung Univ. National Cheng Kung Univ.
Hu, Ta-Yin Ho, Wei-Ming	
09:36-09:58	WeAT3.4
<i>Simulation and Analysis of Urban Traffic - the Architecture of a Web-Based Interactive Decision Support System</i> , pp. 733-738.	Univ. Federal de Goiás Univ. Federal de Goiás Univ. Federal de Goiás Univ. Federal de Goiás
Jradi, Walid A. R. do Nascimento, Hugo Alexandre Dantas Hall, Bryon Longo, Humberto	
WeAT4	Grand C
Statistical Modeling (Regular Session)	
08:30-08:52	WeAT4.1
<i>Kalman Filter Process Models for Urban Vehicle Tracking</i> , pp. 739-746.	National ICT Australia, Univ. of New South Wales, Roads and Traf Univ. of New South Wales National ICT Australia, Univ. of New South Wales
Aydos, Carlos Hengst, Bernhard Uther, William T. B.	
08:52-09:14	WeAT4.2
<i>Prediction Model of Driving Behavior Based on Traffic Conditions and Driver Types</i> , pp. 747-752.	Nagoya Univ. Nagoya Univ. Nagoya Univ. Nagoya Univ. Nagoya Univ.
Amata, Hideomi Miyajima, Chiyomi Nishino, Takanori Kitaoka, Norihide Takeda, Kazuya	
09:14-09:36	WeAT4.3
<i>Optimization Based Modeling of Multi-Service Architecture Concepts in Road Transport Telematics</i> , pp. 753-758.	Blekinge Inst. of Tech. Blekinge Inst. of Tech. Blekinge Inst. of Tech.
Mbiydzennyuy, Gideon Persson, Jan Davidsson, Paul	
09:36-09:58	WeAT4.4
<i>Online Travel Time Prediction Based on Boosting</i> , pp. 759-764.	Georgia Inst. of Tech. Georgia Inst. of Tech. Georgia Inst. of Tech.
Li, Ying Fujimoto, Richard Hunter, Michael	
WeBT1	Regency A
Traffic Control (Regular Session)	
10:30-10:52	WeBT1.1
<i>A Decentralized Adaptive Traffic Signal Control Using V2I Communication Data</i> , pp. 765-770.	Univ. Hannover
Priemer, Christian	
10:52-11:14	WeBT1.2
<i>On Using Petri Nets for Representing and Controlling Signalized Urban Areas: New Model and Results</i> , pp. 771-778.	Pol. di Torino Univ. of Genova Univ. of Genova
Di Febraro, Angela Giglio, Davide Sacco, Nicola	
11:14-11:36	WeBT1.3
<i>An External Logic Processor for NTCIP-Based Traffic Controllers: Proof of Concept for Data Exchange Capability</i> , pp. 779-784.	Univ. of Idaho Univ. of Idaho
Abdel-Rahim, Ahmed Ahmed, Sk Monsur	
11:36-11:58	WeBT1.4
<i>Distributed ITS Control and the Oklahoma Virtual TMC</i> , pp. 785-790.	

Kilani, Basel
Vorakitolan, Ekasit
Havlicek, Joseph
Tull, Monte
Stevenson, Alan

Univ. of Oklahoma
Univ. of Oklahoma
Univ. of Oklahoma
Univ. of Oklahoma
Oklahoma Department of Transportation

WeBT2

Regency B

Topics in ITS 2 (Regular Session)

10:30-10:52		WeBT2.1
<i>Dangerous Driving Condition Analysis in Driver Assistance Systems</i> , pp. 791-796.		
Fang, Chiung-Yao	National Taiwan Normal Univ.	
Chiou, Chien Fu	National Taiwan Normal Univ.	
Chen, Sei-Wang	National Taiwan Normal Univ.	
11:14-11:36		WeBT2.3
<i>Penetration of ITS Concepts at the University Level and Willingness to Their Introduction</i> , pp. 797-802.		
Santa, José	Univ. of Murcia	
Ubeda, Benito	Univ. of Murcia	
Zamora-Izquierdo, Miguel A.	Univ. of Murcia	
Toledo-Moreo, Rafael	Univ. of Murcia 1, Tech. Univ. of Cartagena 2	
Gomez-Skarmeta, Antonio F.	Univ. of Murcia	
11:36-11:58		WeBT2.4
<i>Observed Time-Headway Distribution and Its Implication on Traffic Phases</i> , pp. 803-808.		
He, Shuyan	Beijing Jiaotong Univ.	
Guan, Wei	Beijing Jiaotong Univ.	

WeBT3

Grand A

Simulation and Modeling 2 (Regular Session)

10:30-10:52		WeBT3.1
<i>Traffic Incident Recovery Time Prediction Model Based on Cell Transmission Model</i> , pp. 809-812.		
Ji, Yangbeibei	Delft Univ. of Tech.	
10:52-11:14		WeBT3.2
<i>Comparative Evaluation of Heuristic Optimization Methods in Urban Arterial Network Optimization</i> , pp. 813-818.		
Agbolosu-Amison, Seli	Univ. of Virginia	
Park, Byungkyu (Brian)	Univ. of Virginia	
Yun, Ilsoo	Univ. of Virginia	
11:36-11:58		WeBT3.4
<i>Emotion Modeling of the Driver Based on Fuzzy Logic</i> , pp. 819-823.		
Li, Zhenlong	Beijing Univ. of Tech.	
Wang, Xiaoxia	Beijing Univ. of Tech.	

WeBT4

Grand C

Travel Demand Management (Regular Session)

10:30-10:52		WeBT4.1
<i>Transportation Demand Management for Beijing 2008 Olympic Games</i> , pp. 824-829.		
Su, Yuelong	Tsinghua Univ.	
Lu, Lu	Tsinghua Univ.	
Yao, Danya	Tsinghua Univ.	
Zhang, Yi	Tsinghua Univ.	
Li, Zhiheng	Tsinghua Univ.	
Zhang, Zuo	Tsinghua Univ.	
Wang, Yangmeng	Tsinghua Univ.	
10:52-11:14		WeBT4.2
<i>A Signal Processing Framework for Vehicle Re-Identification and Travel Time Estimation</i> , pp. 830-835.		
Ndoye, Mandoye	Purdue Univ.	
Totten, Virgil	Purdue Univ.	
Krogmeier, James V.	Purdue Univ.	
Bullock, Darcy	Purdue Univ.	
11:14-11:36		WeBT4.3
<i>Using 3S Technology to Estimate OD Matrix</i> , pp. 836-841.		
Deng, Bin	Tsinghua Univ.	
Hu, Jianming	Tsinghua Univ.	
Dai, Zhiguang	Tsinghua Univ.	
He, Li	Tsinghua Univ.	
Zhang, Zuo	Tsinghua Univ.	
11:36-11:58		WeBT4.4
<i>Understanding Individual and Collective Mobility Patterns from Smart Card Records: A Case Study in Shenzhen</i> , pp. 842-847.		
Liu, Liang	Massachusetts Inst. of Tech.	
Hou, Anyang	Massachusetts Inst. of Tech.	
Biderman, Assaf	Massachusetts Inst. of Tech.	
Ratti, Carlo	massachusetts Inst. of Tech.	
Chen, Jun	Tongji Univ.	

ÀÉ @!Qá^c