

**2012 15th International IEEE
Conference on Intelligent
Transportation Systems
(ITSC 2012)**

**Anchorage, Alaska, USA
16-19 September 2012**

**Volume 1
Pages 1-768**



**IEEE Catalog Number: CFP12ITS-PRT
ISBN: 978-1-4673-3064-0**

Content List of 15th International IEEE Conference on Intelligent Transportation Systems

Technical Program for Monday September 17, 2012

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| Winner, Hermann | Tech. Univ. Darmstadt |
| Franz, Benjamin | Tech. Univ. Darmstadt |
| Kauer, Michaela | Tech. Univ. Darmstadt |
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| Guisheng, Chen | Chinese Inst. of Electronic System Engineering |
| Shuming, Tang | Chinese Acad. of Sciences |
| Deyi, Li | Chinese Inst. of Electronic System Engineering |
| Mu, Guo | Tsinghua Univ. |
| Tianlei, Zhang | Tsinghua Univ. |
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| Ercan, Ziya | Istanbul Tech. Univ. |
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| Gokasan, Metin | Istanbul Tech. Univ. Electrical & Electronics Engineering |
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| Talavera, Edgar | Univ. Pol. de Madrid |
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| Wietfeld, Christian | TU Dortmund Univ. |
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| Vijitkunsawat, Wuttichai | Rajamangala Univ. of Tech. Krungthep |
| Anunvrpong, Pramote | Rajamangala Univ. of Tech. Krungthep |
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| Abbas-Turki, Abdeljalil | Univ. de Tech. de Belfort Montbéliard |
| Buisson, Jocelyn | Voxelia |
| El Moudni, Abdellah | Univ. of Tech. of Belfort-Montbéliard (UTBM) |
| Zéo, Renan | Voxelia |
| Ahmane, Mourad | Univ. of Tech. of Belfort-Montbéliard (UTBM) |
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| Qin, Yeyang | Peking Univ. |
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| Hisaka, Shoma | The Univ. of Tokyo |
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| Møgelmoose, Andreas | Aalborg Univ. |
| Prioletti, Antonio | Univ. of Parma |
| Trivedi, Mohan M. | Univ. of California at San Diego |
| Broggi, Alberto | Univ. of Parma |
| Moeslund, Thomas B. | Aalborg Univ. |

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| Mueller, Dennis | | Delphi Electronics & Safety |
| Müller-Schneiders, Stefan | | Delphi Deutschland GmbH |
| Kummert, Anton | | Univ. of Wuppertal |
| Velten, Jörg | | Univ. of Wuppertal |
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| Nezhad-Ahmadi, Mohammad-Reza | | Univ. of Waterloo |
| L. Azad, Nasser | | Univ. of Waterloo |
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| Rebhan, Sven | | Honda Res. Inst. Europe GmbH |
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| Organizer: Punzo, Vincenzo | | European Commission Joint Res. Centre |
| Organizer: Brackstone, Mark | | IOMI Consulting |
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| Zhu, Fenghua | | Inst. of Automation, Chinese Acad. of sciences |
| Chen, Songhang | | Chinese Acad. of Sciences |
| Lv, Yisheng | | Chinese Acad. of Sciences |
| Ye, Peijun | | Chinese Acad. of Sciences |
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| Montanino, Marcello | | Univ. of Naples Federico II |
| Ciuffo, Biagio | | Joint Res. Centre - European Commission |
| Punzo, Vincenzo | | European Commission Joint Res. Centre |
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| Flötteröd, Gunnar | | KTH Royal Inst. of Tech. |
| van Lint, Hans | | Delft Univ. of Tech. |
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| Korcek, Pavol | | Brno Univ. of Tech. |

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| Sekanina, Lukas | Brno Univ. of Tech. - Faculty of Information Technology |
| Fucik, Otto | Brno Univ. of Tech. - Faculty of Information Technology |
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| d'Orey, Pedro M. | Univ. of Porto, Inst. de Telecomunicações |
| Fernandes, Ricardo | Inst. de Telecomunicações |
| Ferreira, Michel | Inst. de Telecomunicações |
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| Nordland, Andrew | Univ. of Nevada, Las Vegas |
| Khan, Alauddin | Nevada Department of Transportation |
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| Yan, Tingxin | Univ. of Massachusetts, Amherst |
| Deepak, Ganesan | Univ. of Massachusetts, Amherst |
| Ken, Tracton | Nokia Res. Center |
| Toch, Iwuchukwu | Nokia Res. Center |
| Juong-Sik, Lee | Nokia Res. Center |

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| Ren, Jimmy SJ. | City Univ. of Hong Kong |
| Wang, Wei | City Univ. of Hong Kong |
| Wang, Jiawei | USTC-CityU Joint Advanced Res. Centre |
| Liao, Stephen | City Univ. of Hong Kong |
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| Dadic, Ivan | Faculty of Traffic and Transportation Sciences |

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| Damir, Skaro | AK Siget |
| Vidovic, Kresimir | Faculty of Traffic and Transportation Sciences |
| Ševrović, Marko | Faculty of transport and traffic sciences |
| Sostaric, Marko | Faculty of Traffic and Transportation Sciences |
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| Poolsawat, Anurak | NECTEC |
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| Boriboonsomsin, Kanok | Univ. of California-Riverside |
| Schweizer, Friedrich | BMW Tech. Office Mountain View |
| Winckler, Andreas | BMW Tech. Office Mountain View |
| Zhou, Kun | Univ. of California-Berkeley |
| Zhang, Wei-Bin | Univ. of California-Berkeley |
| Barth, Matthew | Univ. of California-Riverside |
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| Li, Keqiang | Tsinghua Univ. |
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| Wang, Xiaobing | Texas Southern Univ. |
| Jia, Jing | Texas Southern Univ. |
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| Frey, Christian | Fraunhofer IOSB |
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| Krishna, K Madhava | IIIT Hyderabad |
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| Heinrich, Steffen | Freie Univ. Berlin |
| Wang, Miao | Freie Univ. Berlin |
| Rojas, Raúl | Freie Univ. Berlin |

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| Kuhnert, Lars | Univ. of Karlsruhe |
| Schlemper, Jens | Univ. of Siegen |
| Thamke, Stefan | Univ. of Siegen |
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| Hecker, Peter | Tech. Univ. Braunschweig |
| Lichte, Bernd | Tech. Univ. Braunschweig |
| Maurer, Markus | TU Braunschweig |

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| Carballedo, Roberto | Univ. of Deusto |

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| Ohno, Kohei | Tokyo Univ. of Science |
| Itami, Makoto | Tokyo Univ. of Science |

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| Enriquez, Dj | Univ. of Alaska, Anchorage; Honeywell HPS |
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| Field, Paloma | Univ. of Alaska Anchorage |
| Kim, Sun-il | Univ. of Alaska, Anchorage |
| Jenson, Sean | Univ. of Alaska Anchorage |
| Ali, Muhammad | Univ. of Alaska, Anchorage |
| Miller, Jeffrey | Univ. of Alaska Anchorage |

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| Zhao, Qingrong | | General Motors Company |
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| Deusch, Hendrik | | Univ. of Ulm |
| Wiest, Juergen | | Univ. of Ulm |
| Reuter, Stephan | | Univ. of Ulm |
| Szczot, Magdalena | | Univ. of Ulm |
| Konrad, Marcus | | EvoBus GmbH - Daimler Buses |
| Dietmayer, Klaus | | Univ. of Ulm |
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| Yao, Wentao | | Tsinghua Univ. |
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| Chen, Zhenhua | | Tsinghua Univ. |
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| Kühnl, Tobias | | Bielefeld Univ. |
| Kummert, Franz | | Bielefeld Univ. |
| Fritsch, Jannik | | Honda Res. Inst. Europe GmbH |
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| Kitt, Bernd | | KIT |
| Lategahn, Henning | | Inst. of Measurement & Control |
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| Velten, Joerg | | Univ. of Wuppertal |
| Schauland, Sam | | Riedel Communications |
| Gavriilidis, Alexandros | | Univ. of Wuppertal |
| Schwerdtfeger, Tim | | Univ. of Wuppertal |
| Boschen, Fritz | | Univ. of Wuppertal |
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| Mukherjee, Dibyendu | | Univ. of Windsor |
| Saha, Ashirbani | | Univ. of Windsor |
| Wu, Q. M. Jonathan | | Univ. of Windsor |

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| El-Tantawy, Samah | | Univ. of Toronto |
| Abdulhai, Baher | | Univ. of Toronto |
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| Chen, Cheng | | Inst. of Automation, Chinese Acad. of Sciences |
| Zhu, Fenghua | | Inst. of Automation, Chinese Acad. of Sciences |
| Ai, Yunfeng | | Inst. of Automation, Chinese Acad. of Sciences |
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| Carlino, Dustin | | Univ. of Texas at Austin |
| Depinet, Michael | | Univ. of Texas |
| Khandelwal, Piyush | | Univ. of Texas at Austin |
| Stone, Peter | | The Univ. of Texas at Austin |
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| Lützenberger, Marco | | Tech. Univ. Berlin |
| Ahrndt, Sebastian | | Tech. Univ. Berlin |
| Hirsch, Benjamin | | Khalifa Univ. |
| Masuch, Nils | | Tech. Univ. Berlin |
| Heßler, Axel | | Tech. Univ. Berlin |
| Albayrak, Sahin | | Tech. Univ. Berlin |
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| Edelbrunner, Hannes | | NISYS GmbH |
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| Weigl, Simone | | Univ. of Federal Armed Forces Munich |
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| Borgiani, Felipe Silveira Mello | | Federal Univ. of Pernambuco |
| Tito, Adriano | | Univ. Federal de Pernambuco |
| Santos, Rodolfo | | Federal Univ. of Pernambuco |
| Tedesco, Patricia Cabral de Azevedo Restelli | | Federal Univ. of Pernambuco |
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| Li, Caixia | | the Univ. of New South Wales |
| Anavatti, Sreenatha | | Univ. of New South Wales |
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Zhao, JianHao

Univ. of Science & Tech. Beijing
Univ. of Science & Tech. Beijing

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| <i>Evaluations of Intelligent Traffic Signal Control Algorithms under Realistic Landmark-Based Traffic Patterns Over the NCTUns Network Simulator</i> , pp. 379-384. | | |
| Wang, Shie-Yuan | | National Chiao Tung Univ. |
| Li, Yu-Wei | | National Chiao Tung Univ. |
| 14:18-14:36 | | MB7.2 |
| <i>Signal Control Strategy between Expressway Off-Ramp and On-Ramp Area in Beijing</i> , pp. 385-390. | | |
| Zhang, Haizheng | | Tsinghua Univ. |
| Li, Weixia | | Tsinghua Univ. |
| Li, Zhiheng | | Tsinghua Univ. |
| Tan, Jiyuan | | Tsinghua Univ. |
| Yao, Danya | | Tsinghua Univ. |
| Li, Li | | Tsinghua Univ. |
| 14:36-14:54 | | MB7.3 |
| <i>Optimized Two-Stage Fuzzy Control for Urban Traffic Signals at Isolated Intersection and Paramics Simulation</i> , pp. 391-396. | | |
| Yang, Wenchen | | School of Transportation Engineering, Tongji Univ. |
| Zhang, Lun | | School of Transportation Engineering, Tongji Univ. |
| He, Zhaocheng | | Intelligent Transportation Res. Centre, Sun Yat-sen Universit |
| Zhuang, Lijian | | Intelligent Transportation Res. Centre, Sun Yat-sen Universit |
| 14:54-15:12 | | MB7.4 |
| <i>Delay Analysis of Signal Control Policies for an Isolated Intersection</i> , pp. 397-402. | | |
| Ghavami, Abouzar | | Rensselaer Pol. Inst. |
| Kar, Koushik | | Rensselaer Pol. Inst. |
| Ukkusuri, Satish | | Purdue Univ. |
| 15:12-15:30 | | MB7.5 |
| <i>Improving Intersection Performance with Left Turn Phase Reservice Strategies</i> , pp. 403-408. | | |
| Corey, Jonathan | | Univ. of Washington |
| Lao, Yunteng | | Univ. of Washington |
| Xin, Xin | | Univ. of Washington |
| Wang, Yin Hai | | Univ. of Washington |
| MB8 | | Lupine |
| Eco Driving and Energy Efficient Intelligent Infrastructure 2 (Regular Session) | | |
| 14:00-14:18 | | MB8.1 |
| <i>Optimal Real-Time Navigation System: Application to a Hybrid Electrical Vehicle</i> , pp. 409-414. | | |
| Hrazdira, Adam | | Brno Univ. of Tech. |
| Cela, Arben | | ESIEE Paris |
| Hamouche, Redha | | ESIEE Paris |
| Reama, Abdellatif | | ESIEE Paris |
| Rezende, Bernardo | | Univ. Federal de Minas Gerais |
| Niculescu, Silviu-Iulian | | Lab. de Signaux et Systemes (L2S, UMR CNRS 8506) |
| Villedieu, Christophe | | AKKA Tech. |
| 14:18-14:36 | | MB8.2 |
| <i>Comparison of VSP Profiles for Three Types of Intersection Control and Implications for Emissions</i> , pp. 415-420. | | |
| Hallmark, Shauna | | Iowa State Univ. USA |
| Mudgal, Abhisek | | Iowa State Univ. |
| 14:36-14:54 | | MB8.3 |
| <i>A Self-Learning Traffic Signal Control Method for CO2 Reduction Using Prediction of Vehicle Arrivals</i> , pp. 421-426. | | |

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|------------------|------------------|
| Umedu, Takaaki | Osaka Univ. |
| Togashi, Yuji | Osaka University |
| Higashino, Teruo | Osaka Univ. |

14:54-15:12 MB8.4

Energy Efficient Driving Strategy for Trains in MRT Systems, pp. 427-432.

| | |
|-----------|--|
| Gu, Qing | Beijing Jiaotong Univ. |
| Cao, Fang | state key Lab. of rail traffic control and safety, Beijing |
| Tang, Tao | Beijing Jiaotong Univ. |

15:12-15:30 MB8.5

An Analysis on Excursion Characteristics of Electric Assist Bicycles by Travel Behavioral Comparison Based on Trajectory Data, pp. 433-437.

| | |
|-------------------|---|
| Inagaki, Tomoyuki | Seikei Univ. |
| Mimura, Yasuhiro | Toyota Transportation Res. Inst. |
| Ando, Ryosuke | TTRI (Toyota Transportation Res. Inst.) |

MC1 Chart

Advanced Vehicle Active Safety Systems (Special Session)

| | |
|-------------------------|--|
| Organizer: Chen, Yaobin | Purdue School of Engineering and Tech. IUPUI |
| Organizer: Du, Eliza | Indiana Univ. Univ. Indianapolis |

16:00-16:18 MC1.1

Plant Error Analysis and Compensation in Adaptive Cruise Control Systems (I), pp. 438-443.

| | |
|----------------|--|
| Meadows, Alex | Indiana Univ. Univ. Indianapolis |
| Li, Lingxi | Indiana Univ. Univ. Indianapolis |
| Chen, Yaobin | Purdue School of Engineering and Tech. IUPUI |
| Widmann, Glenn | Delphi Electronics and Safety |

16:18-16:36 MC1.2

Semantic-Based Road Environment Recognition in Mixed Traffic for Intelligent Vehicles and Advanced Driver Assistance Systems (I), pp. 444-450.

| | |
|---------------|------------------------------|
| Guo, Chunzhao | Toyota Central R&D Lab. Inc. |
| Mita, Seiichi | Toyota Tech. Inst. |

16:36-16:54 MC1.3

Automatic Categorization-Based Multi-Stage Pedestrian Detection (I), pp. 451-456.

| | |
|---------------------|--|
| Yang, Kai | Indiana Univ. Univ. Indianapolis |
| Du, Eliza | Indiana Univ. Univ. Indianapolis |
| Jiang, Pingge | Indiana Univ. Univ. Indianapolis |
| Chen, Yaobin | Purdue School of Engineering and Tech. IUPUI |
| Sherony, Rini | Toyota Motor Engineering and Manufacturing North America |
| Takahashi, Hiroyuki | Toyota Motor Corp. |

16:54-17:12 MC1.4

Minimizing Driver Interference under a Probabilistic Safety Constraint in Emergency Collision Avoidance Systems (I), pp. 457-462.

| | |
|------------------|---------------|
| Johnson, Jeffrey | Indiana Univ. |
| Zhang, Yajia | Indiana Univ. |
| Hauser, Kris | Indiana Univ. |

MC2 Denali

Communication Technologies and Protocols 3 (Regular Session)

16:00-16:18 MC2.1

Simulation Modeling of Visible Light Communication Channel for Automotive Applications, pp. 463-468.

| | |
|------------------|---------------------------------|
| Lee, SeokJu | Yeungnam Univ. |
| Kwon, Jae Kyun | Yeungnam Univ. |
| Jung, Sung-Yoon | Yeungnam Univ. |
| Kwon, Young-Hoon | LED-IT Fusion Tech. Res. Center |

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| 16:18-16:36 | MC2.2 |
| <i>Radar Simulation in SiVIC Platform for Transportation Issues Antenna and Propagation Channel Modelling</i> , pp. 469-474. | |
| Pechberti, Steve | IFSTTAR |
| Gruyer, Dominique | IFSTTAR |
| Vigneron, Vincent | Univ. d'Evry - Informatique, Biologie Intégrative etSystème |
| 16:36-16:54 | MC2.3 |
| <i>Printed Antenna for DSRC Systems with Omnidirectional Circular Polarization</i> , pp. 475-478. | |
| Varum, Tiago | Inst. de Telecomunicações, Univ. de Aveiro |
| Matos, Joao | Inst. of Telecom, Univ. of Aveiro |
| Pinho, Pedro | Inst. de Telecomunicações, Inst. Superior deEngenharia d |
| Oliveira, Arnaldo | Univ. de Aveiro |
| 16:54-17:12 | MC2.4 |
| <i>NLOS-Communication between Shadowed Vehicles Using By-Standing Relay Vehicles</i> , pp. 479-484. | |
| Dhakal, Sagar | Res. In Motion |
| Jia, Yupeng | Univ. of Rochester |
| Nguyen, Nam | Res. In Motion |
| MC3 | Dillingham |
| Vehicle Detection and Classification (Regular Session) | |
| 16:00-16:18 | MC3.1 |
| <i>Tire Classification from Still Images and Video</i> , pp. 485-490. | |
| Bulan, Orhan | Xerox Corp. |
| Bernal, Edgar | Xerox Corp. |
| Loce, Robert | Xerox Corp. |
| Wu, Wencheng | Xerox Corp. |
| 16:18-16:36 | MC3.2 |
| <i>Application of Random Forest Algorithm to Classify Vehicles Detected by a Multiple Inductive Loop System</i> , pp. 491-495. | |
| Shajahan, Sheik Mohammed Ali | Indian Inst. of Tech. Madras |
| Joshi, Niranjan | Indian Inst. of Tech. Madras |
| George, Bobby | Indian Inst. of Tech. Madras |
| Vanajakshi, Lelitha | Indian Inst. of Tech. Madras |
| 16:36-16:54 | MC3.3 |
| <i>Novel Vehicle and Motorcycle Classification Using Single Element Piezoelectric Sensor</i> , pp. 496-501. | |
| Rajab, Samer | Univ. of Oklahoma |
| Othman, Ahmad | The Univ. of Oklahoma |
| Refai, Hazem | The Univ. of Oklahoma |
| 16:54-17:12 | MC3.4 |
| <i>Approaching Car Detection Via Clustering of Vertical-Horizontal Line Scanning Optical Edge Flow</i> , pp. 502-507. | |
| Karaduman, Ozgur | Firat Univ. |
| Eren, Haluk | Firat Univ. |
| Kurum, Hasan | Firat Univ. |
| Celenk, Mehmet | The Ohio Univ. |
| MC4 | Fireweed |
| Vision Sensing and Image Processing 2 (Regular Session) | |
| 16:00-16:18 | MC4.1 |
| <i>A Smart Vision Systems for Advanced LGV Navigation and Obstacle Detection</i> , pp. 508-513. Attachment | |
| Bertozzi, Massimo | Univ. of Parma - Italy |
| Bombini, Luca | Univ. of Parma - Italy |
| Broggi, Alberto | Univ. of Parma - Italy |
| Coati, Alessandro | Univ. of Parma - Italy |
| 16:18-16:36 | MC4.2 |

Robust Free Space Detection in Occupancy Grid Maps by Methods of Image Analysis and Dynamic B-Spline Contour Tracking, pp. 514-521.

Schreier, Matthias TU Darmstadt
Willert, Volker TU Darmstadt

16:36-16:54 MC4.3

Real-Time 3D Visual Perception : Detection and Localisation of Static and Moving Objects from a Moving Stereo Rig, pp. 522-527.

Lefaudeux, Benjamin INRIA
Nashashibi, Fawzi INRIA

16:54-17:12 MC4.4

Scale Change and TTC Filter for Longitudinal Vehicle Control Based on Monocular Video, pp. 528-533.

Stierlin, Susanne Robert Bosch GmbH
Dietmayer, Klaus Univ. of Ulm

MC5 Iliamna

Simulation and Modeling 2 (Regular Session)

16:00-16:18 MC5.1

A Short-Term Freeway Traffic Flow Prediction Method Based on Road Section Traffic Flow Structure Pattern, pp. 534-539.

Zhang, Ping Peking Univ.
Xie, Kunqing Peking Univ.
Song, Guojie PKU

16:18-16:36 MC5.2

Measurement Analysis of Traffic Flow Uncertainty on Chinese Highway Network, pp. 540-545.

Liu, Ruiqi Peking Univ.
Xing, Xingxing Peking Univ.
Song, Guojie Peking Univ.
Xie, Kunqing Peking Univ.
Zhang, Ping Peking Univ.

16:36-16:54 MC5.3

Simulating Coherent Flow with Cellular Automaton Model, pp. 546-551.

Zheng, Yichen Tsinghua Univ.
Zhang, Yi Tsinghua Univ.
Hu, Jianming Tsinghua Univ.
Li, Li Tsinghua Univ.
Pei, Xin Tsinghua Univ.

16:54-17:12 MC5.4

Microscopic Traffic Simulation Tool for Intelligent Transportation Systems, pp. 552-557.

Jaworski, Pawel MIRA Ltd
Edwards, Tim MIRA Ltd
Burnham, Keith Coventry Univ.
Haas, Olivier Coventry Univ.

17:12-17:30 MC5.5

An Extended Cell Transmission Model Based on Digraph for Urban Traffic Road Network, pp. 558-563.

Han, Xingguang Beijing Univ. of Tech.
Chen, Yangzhou Beijing Univ. of Tech.
Shi, Jianjun Beijing Univ. of Tech.
He, Zhonghe Beijing Univ. of Tech.

MC6 Katmai

Travel Time Estimation and Prediction (Regular Session)

16:00-16:18 MC6.1

Kullback-Leibler Comparison Framework for the Evaluation of Travel Time Distribution Estimates, pp. 564-569.

Ernst, Joseph M. Oak Ridge National Lab.

| | |
|---|---|
| Krogmeier, James V. | Purdue Univ. |
| Bullock, Darcy | Purdue Univ. |
| 16:18-16:36 | MC6.2 |
| <i>Experienced Travel Time Prediction for Freeway Systems</i> , pp. 570-575. | |
| Yildirimoglu, Mehmet | Ec. Pol. Federale de Lausanne |
| Geroliminis, Nikolas | Ec. Pol. Fédérale de Lausanne |
| 16:36-16:54 | MC6.3 |
| <i>Prediction of Dynamic Freeway Travel Times Based on Vehicle Trajectory Construction</i> , pp. 576-581. | |
| Chen, Hao | Virginia Tech. |
| Rakha, Hesham A. | Virginia Tech. |
| 16:54-17:12 | MC6.4 |
| <i>Short-Term Travel Time Estimation and Prediction for Long Freeway Corridor Using NN and Regression</i> , pp. 582-587. | |
| Wang, J.Y. | National Chiao Tung Univ. |
| Wong, K.I. | National Chiao Tung Univ. |
| Chen, Y.Y. | National Chiao Tung Univ. |
| MC7 | King Salmon |
| Traffic Management and Control 2 (Regular Session) | |
| 16:00-16:18 | MC7.1 |
| <i>Distributed Traffic Signal Control for Maximum Network Throughput</i> , pp. 588-595. | |
| Wongpiromsarn, Tichakorn | Singapore-MIT Alliance for Res. & Tech. |
| Uthaicharoenpong, Tawit | Nanyang Tech. Univ. |
| Wang, Yu | NANYANG Tech. Univ. |
| Frazzoli, Emilio | Massachusetts Inst. of Tech. |
| Wang, Danwei | Nanyang Tech. Univ. |
| 16:18-16:36 | MC7.2 |
| <i>Traffic Signal Control Using Reinforcement Learning and the Max-Plus Algorithm As a Coordinating Strategy</i> , pp. 596-601. | |
| Medina, Juan C | Univ. of Illinois at Urbana - Champaign |
| Benekohal, Rahim F. | Univ. of Illinois Urbana-Champaign |
| 16:36-16:54 | MC7.3 |
| <i>Signal Timing for Fleeting Multiple Intersecting Roadways</i> , pp. 602-607. | |
| Miller, Jeffrey | Univ. of Alaska Anchorage |
| Donat, Wolfram | Univ. of Alaska Anchorage |
| Harris, John | Univ. of Alaska Anchorage |
| 16:54-17:12 | MC7.4 |
| <i>Adaptive Control of Hyperbolic PDE System with Uncertain Parameters</i> , pp. 608-612. | |
| Wadoo, Sabiha | New York Inst. of Tech. |
| MC8 | Lupine |
| Eco-Driving and Energy Efficient Intelligent Infrastructure 3 (Regular Session) | |
| 16:00-16:18 | MC8.1 |
| <i>Optimization of Fuel Cost and Emissions with Vehicular Networks at Traffic Intersections</i> , pp. 613-619. | |
| Alsabaan, Maazen | Univ. of Waterloo and King Saud Univ. |
| Naik, Kshirasagar | Univ. of Waterloo |
| Khalifa, Tarek | Univ. of Waterloo |
| Nayak, Amiya | Univ. of Ottawa |
| 16:18-16:36 | MC8.2 |
| <i>Simulation of the Impact of Traffic Lights Placement on Vehicle's Energy Consumption and CO2 Emissions</i> , pp. 620-625. | |
| Corti, Andrea | Pol. di Milano |
| Manzoni, Vincenzo | Pol. di Milano |
| Savaresi, Sergio | Pol. di Milano |
| 16:36-16:54 | MC8.3 |

Vehicle's Energy Estimation Using Low Frequency Speed Signal, pp. 626-631.

Corti, Andrea

Pol. di Milano

Manzoni, Vincenzo

Pol. di Milano

Savaresi, Sergio

Pol. di Milano

16:54-17:12

MC8.4

Estimation of Missing Values in Traffic Density Maps, pp. 632-637.

Petrlik, Jiri

Brno Univ. of Tech.

Korcek, Pavol

Brno Univ. of Tech.

Fucik, Otto

Camea spol. s r.o.

Beszedes, Marian

Camea spol. s r.o.

Sekanina, Lukas

Brno Univ. of Tech.

Technical Program for Tuesday September 18, 2012

| | |
|---|------------------------------|
| TPL1 | Aleutian |
| Plenary Session on Tuesday A (Plenary Session) | |
| 09:00-09:45 | TPL1.1 |
| <i>Train Operation Control Systems for High Speed Railways in China*</i> . | |
| Ning, Bin | Beijing Jiaotong Univ. |
| 09:45-10:30 | TPL1.2 |
| <i>ITS Wireless Communication Systems in Japan*</i> . | |
| Itami, Makoto | Tokyo Univ. of Science |
| TPL2 | Alaska |
| Plenary Session on Tuesday B (Plenary Session) | |
| 09:00-09:45 | TPL2.1 |
| <i>Smart Maintenance and Operations Vehicles*</i> . | |
| Adams, Ocie | Alaska DOT |
| 09:45-10:30 | TPL2.2 |
| <i>Towards Swarms of Self-Driving Automobiles*</i> . | |
| Stiller, Christoph | Karlsruhe Inst. of Tech. |
| TA1 | Chart |
| Driver Behavior and Safety System (Regular Session) | |
| 11:00-11:18 | TA1.1 |
| <i>Prediction of Driver Behavior on a Limited Sensory Setting</i> , pp. 638-643. | |
| Garcia Ortiz, Michael | Bielefeld Univ. |
| Kummert, Franz | Bielefeld Univ. |
| Schmuedderich, Jens | Honda Res. Inst. Europe GmbH |
| 11:18-11:36 | TA1.2 |
| <i>Measuring Driver Awareness Based on Correlation between Gaze Behavior and Risks of Surrounding Vehicles</i> , pp. 644-647. | |
| Mori, Masataka | Nagoya Univ. |
| Miyajima, Chiyomi | Nagoya Univ. |
| Angkititrakul, Pongtep | Nagoya Univ. |
| Hirayama, Takatsugu | Nagoya Univ. |
| Li, Yiyang | Nagoya Univ. |
| Kitaoka, Norihide | Nagoya Univ. |
| Takeda, Kazuya | Nagoya Univ. |
| 11:36-11:54 | TA1.3 |
| <i>Modeling the Steering Behavior of Intoxicated Drivers</i> , pp. 648-653. | |
| M. Shirazi, Mehran | Simon Fraser Univ. |
| B. Rad, Ahmad | Simon Fraser Univ. |
| 11:54-12:12 | TA1.4 |
| <i>Towards Collision Alarming Based on Visual Motion</i> , pp. 654-659. | |
| Kilicarslan, Mehmet | IUPUI |
| Zheng, Jiang Yu | IUPUI |
| 12:12-12:30 | TA1.5 |
| <i>Leveraging Sensor Information from Portable Devices towards Automatic Driving Maneuver Recognition</i> , pp. 660-665. | |
| Sathyanarayana, Amardeep | The Univ. of Texas at Dallas |
| Sadjadi, Seyed Omid | The Univ. of Texas at Dallas |
| Hansen, John | Univ. of Texas at Dallas |
| TA2 | Denali |
| Communication Technologies and Protocols 4 (Regular Session) | |

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|---|------------------------------|
| 11:00-11:18 | TA2.1 |
| <i>Ipass: Intelligent Pavement Signaling System</i> , pp. 666-671. | |
| Claussen, Heiko | Siemens Corp. Res. and Tech. |
| Aparicio, Juan | Siemens Corp. Res. and Tech. |
| Rosca, Justinian | Siemens Corp. Res. and Tech. |
| Tas, Nazif | Siemens Corp. Res. and Tech. |
| 11:18-11:36 | TA2.2 |
| <i>Increasing the Probability of Timely and Correct Message Delivery in Road Side Unit Based Vehicular Communication</i> , pp. 672-679. | |
| Jonsson, Magnus | Halmstad Univ. |
| Kunert, Kristina | Halmstad Univ. |
| Böhm, Annette | Halmstad Univ. |
| 11:36-11:54 | TA2.3 |
| <i>Person-To-Infrastructure (P2I) Wireless Communication for Work Zone Safety Enhancement</i> , pp. 680-684. | |
| Qiao, Yijun | The Univ. of Texas at Austin |
| Qiao, Fengxiang | Texas Southern Univ. |
| 11:54-12:12 | TA2.4 |
| <i>A Smartphone-Based Traffic Information Service Platform for Pedestrian and Bicycle Systems</i> , pp. 685-690. | |
| Du, Jun | Tsinghua Univ. |
| Zheng, Chenyu | Univ. of Colorado |
| Zeqi, Zhang | Tsinghua Univ. |
| Zhongqiang, Zhai | Tsinghua Univ. |
| Yang, Yu | Tsinghua Univ. |
| Nengqiang, He | Tsinghua Univ. |
| Sicker, Douglas | Univ. of Colorado |
| Ren, Yong | Tsinghua Univ. |
| TA3 | Dillingham |
| Detection of Driving Environment 1 (Regular Session) | |
| 11:00-11:18 | TA3.1 |
| <i>A Generic Map Based Environment Representation for Driver Assistance Systems Applied to Detect Convoy Tracks</i> , pp. 691-696. | |
| Weiharer, Tobias | Tech. Univ. München |
| Bouzouraa, Mohamed Essayed | AUDI AG |
| Hofmann, Ulrich | AUDI AG |
| 11:18-11:36 | TA3.2 |
| <i>Simulation Architecture for the Design of Cooperative Collision Warning Systems</i> , pp. 697-703. | |
| Gruyer, Dominique | IFSTTAR |
| Demmel, Sébastien | QUT & IFSTTAR |
| D'Andrea-Novel, Brigitte | Mines ParisTech |
| Lambert, Alain | IFSTTAR |
| Rakotonirainy, Andry | Queensland Univ. of Tech. |
| 11:36-11:54 | TA3.3 |
| <i>Robust Traffic Sign Recognition and Tracking for Advanced Driver Assistance Systems</i> , pp. 704-709. | |
| Zheng, Zhihui | Beijing Inst. of Tech. |
| Zhang, Hanxizi | Beijing Institute of Tech. |
| Wang, Bo | Beijing Inst. of Tech. |
| Gao, Zhifeng | Beijing Inst. of Tech. |
| 11:54-12:12 | TA3.4 |
| <i>Interacting Multiple Model Road Curvature Estimation</i> , pp. 710-715. | |
| Shen, Truman | Takata Holdings Inc |
| 12:12-12:30 | TA3.5 |
| <i>Probabilistic Estimation of Temporary Lanes at Road Work Zones</i> , pp. 716-721. | |

Graf, Regine
 Wimmer, Andreas
 Dietmayer, Klaus

Univ. of Ulm
 Univ. of Ulm
 Univ. of Ulm

| TA4 | | Fireweed |
|--|--|--|
| Vision Sensing and Image Processing 3 (Regular Session) | | |
| 11:00-11:18 | | TA4.1 |
| <i>Real-Time Modeling of Dynamic Environments in Traffic Scenarios Using a Stereo-Vision System</i> , pp. 722-727. | | |
| Vatavu, Andrei | | Tech. Univ. of Cluj-Napoca |
| Nedeveschi, Sergiu | | Tech. Univ. of Cluj-Napoca |
| 11:18-11:36 | | TA4.2 |
| <i>Unsupervised Video Leap Segmentation for Fast Detection of Salient Segment Transformations in Mobile Sequences</i> , pp. 728-733. | | |
| Forsthoefel, Dana | | Georgia Inst. of Tech. |
| Wills, D. Scott | | Georgia Inst. of Tech. |
| Wills, Linda M. | | Georgia Inst. of Tech. |
| 11:36-11:54 | | TA4.3 |
| <i>Performance Evaluation of the Improved Hazard Detection System for the Safety of a Handle Type Electric Wheelchair</i> , pp. 734-739. | | |
| Kim, Jeyeon | | Saitama Univ. |
| Hasegawa, Takaaki | | Saitama Univ. |
| 11:54-12:12 | | TA4.4 |
| <i>A Novel Technique for Raindrop Detection on a Car Windshield Using Geometric-Photometric Model</i> , pp. 740-745. | | |
| Sugimoto, Masanori | | Univ. of Tokyo |
| Kakiuchi, Noriaki | | Univ. of Tokyo |
| Ozaki, Noriyuki | | DENSO Corp. |
| Sugawara, Ryoichi | | DENSO Corp. |
| TA5 | | Iliamna |
| Simulation and Modeling 4 (Regular Session) | | |
| 11:00-11:18 | | TA5.1 |
| <i>Overtaking and Giving Way: Design and Validation of a Lightweight Extended Cellular Automata Urban Traffic Simulator</i> , pp. 746-751. | | |
| Sanchez-Medina, Javier J. | | ULPGC |
| Medina-Machin, Elisa | | ULPGC, CICEI |
| Diaz-Cabrera, Moises | | ULPGC |
| Galan-Moreno, Manuel | | ULPGC, DMAT, CICEI |
| Rubio-Royo, Enrique | | ULPGC, CICEI |
| 11:18-11:36 | | TA5.2 |
| <i>Extended Safety Descriptor Measures for Relative Safety Assessment in Mixed Road Traffic</i> , pp. 752-757. | | |
| Derbel, Oussama | | MIPS - UHA |
| Mourllion, Benjamin | | MIPS EA 2332 UHA |
| Basset, Michel | | Univ. of Haute-Alsace |
| 11:36-11:54 | | TA5.3 |
| <i>Traffic Simulation Using Activity Place Related Information Acquisition from the Web</i> , pp. 758-763. | | |
| Chen, Songhang | | Chinese Acad. of Sciences |
| Zhu, Fenghua | | Inst. of Automation, Chinese Acad. of sciences |
| 11:54-12:12 | | TA5.4 |
| <i>A Cellular Automata Based Evacuation Model on GPU Platform</i> , pp. 764-768. | | |
| Miao, Qinghai | | Graduate Univ. Chinese Acad. of Sciences |
| Lv, Yisheng | | Chinese Acad. of Sciences |
| Zhu, Fenghua | | Chinese Acad. of Sciences |
| 12:12-12:30 | | TA5.5 |

Car-Following Model with Multiple Predicting and Controlling Modules Based on Assumptions of Anticipation Behavior, pp. 769-775.

Kasai, Makoto

Tokyo Univ. of Science

| TA6 | | Katmai |
|---|--|---|
| Route Planning and Guidance (Regular Session) | | |
| 11:00-11:18 | | TA6.1 |
| <i>Online Map-Matching Based on Hidden Markov Model for Real-Time Traffic Sensing Applications</i> , pp. 776-781. | | |
| Goh, Chong Yang | | Nanyang Tech. Univ. |
| Dauwels, Justin | | Nanyang Tech. Univ. |
| Mitrovic, Nikola | | Nanyang Tech. Univ. |
| Asif, Muhammad Tayyab | | Nanyang Tech. Univ. |
| Oran, Ali | | SMART |
| Jaillet, Patrick | | MIT |
| 11:18-11:36 | | TA6.2 |
| <i>Dynamic Optimal Routing Based on a Reverse Stackelberg Game Approach</i> , pp. 782-787. | | |
| Groot, Noortje | | Delft Univ. of Tech. |
| De Schutter, Bart | | Delft Univ. of Tech. |
| Hellendoorn, Hans | | Delft Univ. of Tech. |
| 11:36-11:54 | | TA6.3 |
| <i>Realization of ITS Applications through Mapping Technologies: A Survey of Advanced Traveler Information Systems</i> , pp. 788-795. | | |
| Campbell, Patrick | | Univ. of Oklahoma |
| Havlicek, Joseph | | Univ. of Oklahoma |
| Stevenson, Alan | Oklahoma Department of Transportation: | |
| Barnes, Ronald | | Univ. of Oklahoma |
| 11:54-12:12 | | TA6.4 |
| <i>Azimuth Angle of GPS Data and Its Application in Map-Matching</i> , pp. 796-801. | | |
| Li, Lan | | Hitachi (China) Res. & Development Corp. |
| Liu, Bo | | Hitachi (China) Res. & Development Corp. |
| Lai, Yimin | | Hitachi Beijing Tech. Information Systems Co., Ltd. |
| Tang, Xiaochun | | Res. Center of Transport and Logistics, Ministry of Transport |
| 12:12-12:30 | | TA6.5 |
| <i>Automated Transportation Transfer Detection Using GPS Enabled Smartphones</i> , pp. 802-807. | | |
| Stenneth, Leon | | Univ. of Illinois Chicago |
| Thompson, Kenville | | The Graduate Center CUNY |
| Stone, Waldin | | The Graduate Center CUNY |
| Alowibdi, Jalal | | Univ. of Illinois Chicago |
| TA7 | | King Salmon |
| Parallel Transportation Management Systems (Special Session) | | |
| Organizer: Zhu, Fenghua | | Inst. of Automation, Chinese Acad. of sciences |
| Organizer: Rossetti, Rosaldo | | Univ. do Porto - LIACC |
| Organizer: Kong, Qing-Jie | | Shanghai Jiao Tong Univ. |
| Organizer: Li, Lefei | | Tsinghua Univ. |
| Organizer: Miao, Qinghai | | Graduate Univ. Chinese Acad. of Sciences |
| 11:00-11:18 | | TA7.1 |
| <i>Quadtree-Based Domain Decomposition for Parallel Map-Matching on GPS Data (I)</i> , pp. 808-813. | | |
| Xia, Yingjie | | Hangzhou Normal Univ. |
| Liu, Yuncai | | Shanghai Jiao Tong Univ. |
| Ye, Zhoumin | Hangzhou Inst. of Service Engineering, Hangzhou NormalUniver | |
| Wu, Wei | | Enjoyor Company |
| Zhu, Mingzhe | Hangzhou Inst. of Service Engineering, Hangzhou NormalUniver | |
| 11:18-11:36 | | TA7.2 |

Comparison of Urban Traffic Prediction Methods between UTN-Based Spatial Model and Time Series Models (I), pp. 814-819.
 Xu, Yanyan Shanghai Jiao Tong Univ.
 Kong, Qing-Jie Shanghai Jiao Tong Univ.
 Liu, Yuncai Shanghai Jiao Tong Univ.

11:36-11:54 TA7.3

A Dynamic Network Partition Method for Heterogenous Urban Traffic Networks (I), pp. 820-825.

Zhou, Zhao Shanghai Jiao Tong Univ.
 Lin, Shu Shanghai Jiao Tong Univ.
 Xi, Yugeng Shanghai Jiao Tong Univ.

11:54-12:12 TA7.4

Reaching Low-Density Urban Areas with the Network-Inspired Transportation System, pp. 826-831.

Edwards, Derek Georgia Inst. of Tech.
 Elangovan, Arun Kumar RideCell, LLC
 Watkins, Kari E. Georgia Inst. of Tech.

12:12-12:30 TA7.5

Exact Solutions to Traffic Density Estimation Problems Involving the Lighthill-Whitham-Richards Traffic Flow Model Using Mixed Integer Programming, pp. 832-839.

S Canepa, Edward Esteban King Abdullah Univ. of Science and Tech.
 Claudel, Christian King Abdullah Univ. of Science and Tech.

TA8 Lupine
Eco Driving and Energy Efficiency (Regular Session)

11:00-11:18 TA8.1

Agent-Based Modeling of Eco-Cooperative Adaptive Cruise Control Systems in the Vicinity of Intersections, pp. 840-845.

Kamalanathsharma, Raj Kishore Virginia Tech. Transportation Inst.
 Rakha, Hesham A. Virginia Tech.

11:18-11:36 TA8.2

Fuel Consumption and Emission Models Development and Application for Advanced Traffic Management Strategies, pp. 846-851.

Liao, Tsai-Yun National Chiayi Univ.
 Ho, Wei-Ming National Cheng Kung Univ.
 Hu, Ta-Yin National Cheng Kung Univ.

11:36-11:54 TA8.3

Development of Deceleration Intention Indicating System of Forward Vehicle: Effect of the System, pp. 852-857.

Saito, Yuichi Univ. of Tsukuba, Japan
 Hashimoto, Naohisa National Inst. of AIST
 Kato, Shin National Inst. of AIST
 Tsugawa, Sadayuki Meijo Univ.

11:54-12:12 TA8.4

Research on Soft-Switching Circuit of Contactless Power Transmission System of Autonomous Underwater Vehicle, pp. 858-862.

Wang, Hongjian 409 Department, Automation Coll. Harbin Engineering Univ.
 Yu, Le 409 Department, Automation Coll. Harbin, Harbin Engineering U
 Li, Juan Automation Coll. Engineering Univ.
 Liu, Xiangbo 409 Department, Automation Coll. Harbin, Harbin Engineering U
 Tang, Zhaodong 409 Department, Automation Coll. Harbin, Harbin Engineering U

12:12-12:30 TA8.5

Electric Load Forecasting: A Multi-Agent Systems Approach, pp. 863-869.

Nejat, Ali Texas Tech. Univ.
 Mohsenian-Rad, Hamed Univ. of California at Riverside

TB1 Chart
Driver Behavior and Safety Systems 2 (Regular Session)

| | |
|--|---|
| 14:00-14:18 | TB1.1 |
| <i>Detection of Driver Distraction Based on Temporal Relationship between Eye-Gaze and Peripheral Vehicle Behavior</i> , pp. 870-875. | |
| Hirayama, Takatsugu | Nagoya Univ. |
| Mase, Kenji | Nagoya Univ. |
| Takeda, Kazuya | Nagoya Univ. |
| 14:18-14:36 | TB1.2 |
| <i>An Intelligent Driver Model with Trajectory Planning</i> , pp. 876-881. | |
| Zhang, Sumin | Jilin Univ. |
| Deng, Weiwen | Jilin Univ. |
| Zhao, Qingrong | General Motors Company |
| Sun, Hao | Jilin Univ. |
| 14:36-14:54 | TB1.3 |
| <i>Optical Flow Based Head Movement and Gesture Analysis in Automotive Environment</i> , pp. 882-887. | |
| Martin, Sujitha | Univ. of California at San Diego |
| Tran, Cuong | Univ. of California at San Diego |
| Tawari, Ashish | Univ. of California at San Diego |
| Kwan, Jade | Univ. of California at San Diego |
| Trivedi, Mohan M. | Univ. of California at San Diego |
| 14:54-15:12 | TB1.4 |
| <i>Deciding What to Inspect First: Incremental Situation Assessment Based on Information Gain</i> , pp. 888-893. | |
| Platho, Matthias | Univ. of Ilmenau |
| Eggert, Julian | Honda Res. Inst. Europe GmbH |
| 15:12-15:30 | TB1.5 |
| <i>Driver Behavior Classification Model Based on an Intelligent Driving Diagnosis System</i> , pp. 894-899. | |
| Quintero M., Christian G. | Univ. del Norte |
| Oñate López, José | Univ. del Norte |
| Cuervo Pinilla, Andres C. | Univ. del Norte |
| TB2 | Denali |
| Connected Vehicle Technology and Applications (Regular Session) | |
| 14:00-14:18 | TB2.1 |
| <i>On-Ramp Traffic Merging Using Cooperative Intelligent Vehicles: A Slot-Based Approach</i> , pp. 900-906. Attachment | |
| Marinescu, Dan | Trinity Coll. Dublin |
| Čurn, Jan | Trinity Coll. Dublin |
| Bouroche, Mélanie | Trinity Coll. Dublin |
| Cahill, Vinny | Trinity Coll. Dublin |
| 14:18-14:36 | TB2.2 |
| <i>Inter-Vehicle Sensor Fusion for Accurate Vehicle Localization Supported by V2V and V2I Communications</i> , pp. 907-914. Attachment | |
| Conde Bento, Luis Manuel | Inst. de Sistemas e Robotica |
| Nunes, Urbano | Inst. de Sistemas e Robotica |
| Parafita, Ricardo Jorge Pedrosa | Inst. de Sistemas e Robótica - Univ. de Coimbra |
| 14:36-14:54 | TB2.3 |
| <i>Urban Vehicle-To-Infrastructure Wireless Communications Range Evaluation</i> , pp. 915-920. | |
| Hyncica, Ondrej | Brno Univ. of Tech. |
| Honzik, Petr | Brno Univ. of Tech. |
| Kucera, Pavel | Brno Univ. of Tech. |
| Pavlata, Karel | Brno Univ. of Tech. |
| 14:54-15:12 | TB2.4 |
| <i>Mobility-Assisted Fast Handover for Proxy Mobile IPv6 in Vehicle-To-Infrastructure Communications</i> , pp. 921-926. | |
| Lu, Henghui | Tsinghua Univ. |
| Zhang, Sheng | Tsinghua Univ. |

| TB3 | | Dillingham |
|---|--|--|
| Detection of Driving Environment 2 (Regular Session) | | |
| 14:00-14:18 | | TB3.1 |
| <i>Can Priors Be Trusted? Learning to Anticipate Roadworks</i> , pp. 927-932. | | |
| Mathibela, Bonolo | | Univ. of Oxford |
| Osborne, Michael A. | | Oxford Univ. |
| Posner, Ingmar | | Oxford Univ. |
| Newman, Paul | | Univ. of Oxford |
| 14:18-14:36 | | TB3.2 |
| <i>Generator of Road Marking Textures and Associated Ground Truth. Applied to the Evaluation of Road Marking Detection</i> , pp. 933-938. | | |
| Revilloud, Marc | | IFSTTAR |
| Gruyer, Dominique | | IFSTTAR |
| Pollard, Evangeline | | Inria-Rocquencourt |
| 14:36-14:54 | | TB3.3 |
| <i>Automated Lane Identification Using Precise Point Positioning: An Affordable and Accurate GPS Technique</i> , pp. 939-944. | | |
| Knoop, Victor L. | | Delft Univ. of Tech. |
| Buist, Peter J. | | Delft Univ. of Tech. |
| Tiberius, Christiaan C.J.M. | | Delft Univ. of Tech. |
| van Arem, Bart | | Delft Univ. of Tech. |
| 14:54-15:12 | | TB3.4 |
| <i>Model Based Vehicle Localization for Urban Traffic Surveillance Using Image Gradient Based Matching</i> , pp. 945-950. | | |
| Zheng, Yuan | | Inst. of Automation, Chinese Acad. of Sciences |
| Peng, Silong | | Inst. of Automation, Chinese Acad. of Sciences |
| TB4 | | Fireweed |
| Imaging and Image Analysis (Regular Session) | | |
| 14:00-14:18 | | TB4.1 |
| <i>Vehicle Detection, Tracking and Classification in Urban Traffic</i> , pp. 951-956. | | |
| Chen, Zezhi | | Kingston Univ. |
| Ellis, Tim | | Kingston Univ. |
| Velastin, Sergio A | | Kingston Univ. |
| 14:18-14:36 | | TB4.2 |
| <i>Detection of Scene Obstructions and Persistent View Changes in Transportation Camera Systems</i> , pp. 957-962. | | |
| Raghavan, Ajay | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| Price, Robert | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| Liu, Juan | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| 14:36-14:54 | | TB4.3 |
| <i>Reference Image-Independent Fault Detection in Transportation Camera Systems for Nighttime Scenes</i> , pp. 963-968. | | |
| Raghavan, Ajay | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| Liu, Juan | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| Saha, Bhaskar | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| Price, Robert | | Palo Alto Res. Center Inc. (PARC, A Xerox Company) |
| 14:54-15:12 | | TB4.4 |
| <i>Subsign Detection with Region-Growing from Contrasted Seeds</i> , pp. 969-974. | | |
| Puthon, Anne-Sophie | | Ec. des Mines de Paris |
| Moutarde, Fabien | | Mines ParisTech |
| Nashashibi, Fawzi | | INRIA |
| 15:12-15:30 | | TB4.5 |
| <i>A System for Real-Time Detection and Tracking of Vehicles from a Single Car-Mounted Camera</i> , pp. 975-982. Attachment | | |
| Caraffi, Claudio | | Toyota Motor Europe |

Vojir, Tomas
 Trefný, Jiří
 Sochman, Jan
 Matas, George

Czech Tech. Univ. in Prague
 Czech Tech. Univ. in Prague
 Center for Machine Perception, Faculty of Elec. Eng., CzechTechn
 Czech Tech. Univ.

| TB5 | | Iliamna |
|--|--|---|
| Simulation and Modeling 6 (Regular Session) | | |
| 14:00-14:18 | | TB5.1 |
| <i>Unsupervised Learning Based Performance Analysis of N-Support Vector Regression for Speed Prediction of a Large Road Network</i> , pp. 983-988. | | |
| Asif, Muhammad Tayyab | | Nanyang Tech. Univ. |
| Dauwels, Justin | | Nanyang Tech. Univ. |
| Goh, Chong Yang | | Nanyang Tech. Univ. |
| Oran, Ali | | SMART |
| Fathi Loshani, Esmail | | Nanyang Tech. Univ. |
| Xu, Muye | | Nanyang Tech. Univ. |
| Menoth, Dhanya | | Nanyang Tech. Univ. |
| Mitrovic, Nikola | | Nanyang Tech. Univ. |
| Jaillet, Patrick | | MIT |
| 14:18-14:36 | | TB5.2 |
| <i>A System for Storing and Retrieving Huge Amount of Trajectory Data, Allowing Spatio-Temporal Dynamic Queries</i> , pp. 989-994. | | |
| d'Acerno, Antonio | | ISA - CNR |
| Leone, Marco | | Univ. of Salerno |
| Saggese, Alessia | | Univ. of Salerno |
| Vento, Mario | | Univ. of Salerno |
| 14:36-14:54 | | TB5.3 |
| <i>Multi-Objective Traffic Light Control System Based on Bayesian Probability Interpretation</i> , pp. 995-1000. | | |
| Khamis, Mohamed A. | | Egypt-Japan Univ. of Science and Tech. (E-JUST) |
| Gomaa, Walid | | Egypt-Japan Univ. of Science and Tech. (E-JUST) |
| El-Shishiny, Hisham | | IBM Center for Advanced Studies in Cairo |
| 14:54-15:12 | | TB5.4 |
| <i>Assessing Traffic Performance Using Position Density of Sparse FCD</i> , pp. 1001-1005. | | |
| Graser, Anita | | Austrian Inst. of Tech. |
| Ponweiser, Wolfgang | | Austrian Inst. of Tech. |
| Dragaschnig, Melitta | | Austrian Inst. of Tech. |
| Brändle, Norbert | | Austrian Inst. of Tech. |
| Widhalm, Peter | | Austrian Inst. of Tech. |
| TB6 | | Katmai |
| Route Guidance and Demand Analysis Using Taxi Data (Regular Session) | | |
| 14:00-14:18 | | TB6.1 |
| <i>Congestion-Aware Traffic Routing System Using Sensor Data</i> , pp. 1006-1013. | | |
| Aslam, Javed | | Northeastern Univ. |
| Lim, Sejoon | | MIT |
| Rus, Daniela | | MIT |
| 14:18-14:36 | | TB6.2 |
| <i>A Predictive Model for the Passenger Demand on a Taxi Network</i> , pp. 1014-1019. | | |
| Moreira-Matias, Luís | | LIAAD - INESC TEC |
| Gama, João | | Faculdade de Ec. Univ. do Porto |
| Ferreira, Michel | | Inst. de Telecomunicações |
| Damas, Luis | | Geolink |
| 14:36-14:54 | | TB6.3 |
| <i>Exploring the Relationship between Mobile Phone Call Intensity and Taxi Volume in Urban Area</i> , pp. 1020-1025. | | |

| | |
|-------------------------|---|
| Veloso, Marco | Univ. of Coimbra |
| Phithakkitnukoon, Santi | Culture Lab. School of Computing Science, NewcastleUniversity |
| Bento, Carlos | Univ. of Coimbra |

14:54-15:12 TB6.4

Framework of Experienced Route Planning Based on Taxis' GPS Data, pp. 1026-1031.

| | |
|----------------|---------------------------------------|
| Zhuang, Lijian | Res. Center of ITS, Sun Yat-sen Univ. |
| Gong, Junfeng | Res. Center of ITS, Sun Yat-sen Univ. |
| He, Zhaocheng | Res. Center of ITS, Sun Yat-sen Univ. |
| Xu, Feifei | Res. Center of ITS, Sun Yat-sen Univ. |

TB7 King Salmon

Lane Level Traffic Management (Regular Session)

14:00-14:18 TB7.1

Dynamic Lane Separation to Prevent Blocking Back - a Comparison of Two Dynamic Lane Separation Controllers, pp. 1032-1037.

| | |
|--------------------|----------------------|
| Soekroella, Aroen | TU Delft |
| Hegy, Andreas | Delft Univ. of Tech. |
| Hoogendoorn, Serge | Delft Univ. of Tech. |
| van Kooten, Jaap | Arane |

14:18-14:36 TB7.2

Simulation-Based Benefit Evaluation of Dynamic Lane Grouping Strategies at Isolated Intersections, pp. 1038-1043.

| | |
|-----------------------|-------------------------------|
| Wu, Guoyuan | Univ. of California-Riverside |
| Boriboonsomsin, Kanok | Univ. of California-Riverside |
| Zhang, Liping | Univ. of California, Berkeley |
| Barth, Matthew | Univ. of California-Riverside |

14:36-14:54 TB7.3

A Genetic Fuzzy System for Modeling Mandatory Lane Changing, pp. 1044-1048.

| | |
|----------------|----------------------------|
| Hou, Yi | Univ. of Missouri-Columbia |
| Edara, Praveen | Univ. of Missouri-Columbia |
| Sun, Carlos | Univ. of Missouri-Columbia |

14:54-15:12 TB7.4

Using a Centralized Controller to Optimize the Traffic of Intelligent Vehicles in a Single Lane Highway Provided with a Suicide Lane, pp. 1049-1054.

| | |
|-----------------------------|---|
| Reghelin, Ricardo | Univ. Tecnológica Federal do Paraná |
| Arruda, Lúcia Valéria Ramos | Univ. Tecnológica Federal do Paraná (UTFPR) |

TB8 Lupine

Electric and Hybrid Vehicles (Regular Session)

14:00-14:18 TB8.1

System Architecture and Mathematical Model of Public Transportation System Utilizing Wireless Charging Electric Vehicles, pp. 1055-1060.

| | |
|-----------------|---|
| Jang, Young Jae | Korea Advanced Inst. of Science and Tech. |
| Ko, Young Dae | Korea Advanced Inst. of Science and Tech. |

14:18-14:36 TB8.2

Analysis of Impact Factors for Plug-In Hybrid Electric Vehicles Energy Management, pp. 1061-1066.

| | |
|------------------|----------------------|
| Khayyer, Pardis | The Ohio State Univ. |
| Wollaeger, James | The Ohio State Univ. |
| Onori, Simona | The Ohio State Univ. |
| Marano, Vincenzo | The Ohio State Univ. |
| Ozguner, Umit | The Ohio State Univ. |
| Rizzoni, Giorgio | The Ohio State Univ. |

14:36-14:54 TB8.3

Research on Shift Schedule of Hybrid Bus Based on Dynamic Programming Algorithm, pp. 1067-1071.

| | |
|--|--|
| Yu, Huilong | Beijing Insitute of Tech. |
| Xi, Junqiang | Beijing Inst. of Tech. |
| Chen, Yongdan | Beijing Inst. of Tech. |
| 14:54-15:12 | TB8.4 |
| <i>Deviations in Markov Chain Modeled Electric Vehicle Charging Patterns from Real World Data</i> , pp. 1072-1077. | |
| Hill, Graeme | NEWCASTLE Univ. |
| Blythe, Phil | NEWCASTLE Univ. |
| 15:12-15:30 | TB8.5 |
| <i>Map-Based Driving Profile Simulation for Energy Consumption Estimation of Electric Vehicles</i> , pp. 1078-1084. | |
| Adam, Christian | Chemnitz Univ. of Tech. |
| Wanielik, Gerd | Chemnitz Univ. of Tech. |
| TC1 | Chart |
| Driver Assistance Systems - Speed Control (Regular Session) | |
| 16:00-16:18 | TC1.1 |
| <i>Speeding Prediction with a Mathematical Model and Its Validation</i> , pp. 1085-1090. | |
| Zhao, Guozhen | Inst. of Psychology, Chinese Acad. of Sciences |
| Wu, Changxu | Inst. of Psychology, Chinese Acad. of Sciences |
| 16:18-16:36 | TC1.2 |
| <i>A Context Aware Intelligent Speed Adaptation System: A Field Operational Test</i> , pp. 1091-1096. | |
| Hoogendoorn, Raymond G. | Delft Univ. of Tech. |
| Breukink, Johan | Delft Univ. of Tech. |
| van Arem, Bart | Delft Univ. of Tech. |
| 16:36-16:54 | TC1.3 |
| <i>Game Theory Algorithm for Intersection-Based Cooperative Adaptive Cruise Control (CACC) Systems</i> , pp. 1097-1102. | |
| Zohdy, Ismail | Virginia Tech. |
| Rakha, Hesham A. | Virginia Tech. |
| 16:54-17:12 | TC1.4 |
| <i>A New Braking and Warning Scoring System for Vehicle Forward Collision Imminent Braking Systems</i> , pp. 1103-1108. | |
| Chien, Stanley | Indiana Univ. Univ. Indianapolis |
| Li, Lingxi | Indiana Univ. Univ. Indianapolis |
| Chen, Yaobin | Purdue School of Engineering and Tech. IUPUI |
| 17:12-17:30 | TC1.5 |
| <i>Intersection Management for Autonomous Vehicles Using Iacc</i> , pp. 1109-1114. | |
| Zohdy, Ismail | Virginia Tech. |
| Kamalanathsharma, Raj Kishore | Virginia Tech. Transportation Inst. |
| Rakha, Hesham A. | Virginia Tech. |
| TC2 | Denali |
| Safety Analysis and Technologies (Regular Session) | |
| 16:00-16:18 | TC2.1 |
| <i>Speed Reduction Impact of Dynamic Speed Feedback Signs on High Crash Curves</i> , pp. 1115-1120. | |
| Hallmark, Shauna | Iowa State Univ. USA |
| Hawkins, Neal | Iowa State Univ. |
| Smadi, Omar | Iowa State Univ. |
| 16:18-16:36 | TC2.2 |
| <i>Computation of Driver Safety Rating Using In-Vehicle Data Recorders: Case Study of Bangkok Public Transportation</i> , pp. 1121-1126. | |
| Saiprasert, Chalernpol | National Electronics and Computer Tech. Center |
| Pattara-atikom, Wasan | National Electronics and Computer Tech. Center |
| 16:36-16:54 | TC2.3 |
| <i>GIS-Based Road Safety Evaluation Model for Cyclist in Campus of Higher Education Mega Center</i> , pp. 1127-1131. | |

| | |
|------------------|--|
| Hu, Jihua | School of Engineering, Sun Yat-sen Univ. |
| Zhong, Guangpeng | School of Engineering, Sun Yat-sen Univ. |
| Cheng, Zhifeng | School of Engineering, Sun Yat-sen Univ. |
| Wang, Dalei | School of Traffic and Transportation, Beijing Jiaotong Univ. |

16:54-17:12 TC2.4

Rail Extraction Technique Using Gradient Information and a Priori Shape Model, pp. 1132-1136.

| | |
|-----------------------|------------------------------------|
| Corsino Espino, Jorge | Mines Paris-Tech. |
| Stanciulescu, Bogdan | Ec. des Mines de Paris (ParisTech) |

17:12-17:30 TC2.5

Investigating Pedal Errors and Multi-Modal Effects: Driving Testbed Development and Experimental Analysis, pp. 1137-1142.

| | |
|-------------------|----------------------------------|
| Tran, Cuong | Univ. of California, San Diego |
| Doshi, Anup | Univ. of California, San Diego |
| Trivedi, Mohan M. | Univ. of California at San Diego |

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| TC3 | Dillingham |
| Advanced Technologies and Innovative Concepts for Promoting Traffic Safety and Mobility (Special Session) | |

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|-----------------------|----------------------------|
| Organizer: Wei, Heng | Univ. of Cincinnati |
| Organizer: Li, Zhixia | Univ. of Wisconsin-Madison |

16:00-16:18 TC3.1

Effectiveness of Arterial Traffic Status Monitoring Using System Detector Data Based on a V-Plus-O Approach (I), pp. 1143-1148.

| | |
|---------------|----------------------------|
| Li, Zhixia | Univ. of Wisconsin-Madison |
| Yang, Qingyan | Iteris Inc. |
| Wei, Heng | Univ. of Cincinnati |

16:18-16:36 TC3.2

Simplified, Data-Driven, Errorable Car-Following Model to Predict the Safety Effects of Distracted Driving (I), pp. 1149-1154.

| | |
|---------------|------------------------------|
| Przybyla, Jay | Univ. of Utah |
| Taylor, Jeff | Univ. of Utah |
| Jupe, Jason | Armstrong Forensic Engineers |
| Zhou, Xuesong | Univ. of Utah |

16:36-16:54 TC3.3

Parts-Based Object Recognition Seeded by Frequency-Tuned Saliency for Child Detection in Active Safety, pp. 1155-1160.

| | |
|------------------|---|
| Cheng, Shinko | Hrl Lab. LLC |
| Molinerros, Jose | HRL Lab. LLC |
| Owechko, Yuri | HRL Lab. LLC |
| Levi, Dan | General Motors, Advanced Tech. Center, Israel |
| Zhang, Wende | General Motors, Res. and Development |

16:54-17:12 TC3.4

Level of Service for Parking Facilities (I), pp. 1161-1165.

| | |
|---------------|---|
| He, Yulong | Beijing Univ. of Tech. |
| Sun, Xiaoduan | Univ. of Louisiana |
| Du, Lizhen | Beijing Univ. of Tech. |
| Ruan, Jinmei | Beijing Municipal Inst. of City Planning & Design |
| Das, Subasish | Univ. of Louisiana |

17:12-17:30 TC3.5

Driving Motion Capture Based Driver Behavior Analysis (I), pp. 1166-1171.

| | |
|----------------|------------------------|
| Shi, Jianjun | Beijing Univ. of Tech. |
| Wei, Heng | Univ. of Cincinnati |
| Shi, Shengqing | Beijing Univ. of Tech. |

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| TC4 | Fireweed |
| Intersection Detection and Safety (Regular Session) | |

16:00-16:18 TC4.1

Multi-Object Tracking at Intersections Using the Cardinalized Probability Hypothesis Density Filter, pp. 1172-1177.

| | |
|------------------|--------------|
| Reuter, Stephan | Univ. of Ulm |
| Meissner, Daniel | Univ. of Ulm |
| Dietmayer, Klaus | Univ. of Ulm |

16:18-16:36 TC4.2

Cooperative Multi Sensor Network for Traffic Safety Applications at Intersections, pp. 1178-1183.

| | |
|---------------------|---|
| Goldhammer, Michael | Univ. of Applied Sciences Aschaffenburg |
| Strigel, Elias | Univ. of Ulm |
| Meissner, Daniel | Univ. of Ulm |
| Brunsmann, Ulrich | Univ. of Applied Sciences Aschaffenburg |
| Doll, Konrad | Univ. of Applied Sciences Aschaffenburg |
| Dietmayer, Klaus | Univ. of Ulm |

16:36-16:54 TC4.3

Icas: Intelligent Intersection Collision Avoidance System, pp. 1184-1190.

| | |
|---------------|-------------------|
| Kaadan, Asaad | Univ. of Oklahoma |
| Refai, Hazem | Univ. of Oklahoma |

16:54-17:12 TC4.4

VeloRegistration Based Intersection Detection for Autonomous Driving in Challenging Urban Scenarios, pp. 1191-1196.

| | |
|---------------|-------------|
| Zhu, Quanwen | Wuhan Univ. |
| Mao, Qingzhou | Wuhan Univ. |
| Chen, Long | Wuhan Univ. |
| Li, Ming | Wuhan Univ. |
| Li, Qingquan | Wuhan Univ. |

17:12-17:30 TC4.5

A Feasibility Study on a Cooperative Safety Application for Cyclists Crossing Intersections, pp. 1197-1204.

| | |
|-----------------|-------------------------------|
| Thielen, Daniel | German Aerospace Center (DLR) |
| Lorenz, Tobias | German Aerospace Center (DLR) |
| Hannibal, Marco | German Aerospace Center (DLR) |
| Köster, Frank | German Aerospace Center (DLR) |
| Plättner, Jens | German Aerospace Center (DLR) |

TC5

Simulation and Modeling 5 (Regular Session)

Iliamna

16:00-16:18 TC5.1

Determinants of Powered Two-Wheelers Virtual Lane Width in Urban Arterials, pp. 1205-1210.

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| Nikias, Vasileios | National Tech. Univ. of Athens |
| Vlahogianni, Eleni | School of Civil Engineering, National Tech. Athe |
| Lee, Tzu-Chang | National Cheng Kung Univ. |
| Golias, John | National Tech. Univ. of Athens |

16:18-16:36 TC5.2

Investigation on Traffic Flow Competition between Main Road and On-Ramp on Urban Freeway, pp. 1211-1214.

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| He, Shuyan | Beijing Jiaotong Univ. |
| Guan, Wei | Beijing Jiaotong Univ. Beijing P.R.C |

16:36-16:54 TC5.3

Estimating Flexible Route Choice Models Using Sparse Data, pp. 1215-1220.

| | |
|------------------------|--------------------------|
| Fadaei Oshyani, Masoud | KTH Royal Inst. of Tech. |
| Sundberg, Marcus | KTH Royal Inst. of Tech. |
| Karlstrom, Anders | KTH Royal Inst. of Tech. |

16:54-17:12 TC5.4

Analysis and Prediction of Deceleration During Car Following Using Stochastic Driver-Behavior Model, pp. 1221-1226.

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|------------------------|--------------|
| Angkititrakul, Pongtep | Nagoya Univ. |
| Miyajima, Chiyomi | Nagoya Univ. |
| Takeda, Kazuya | Nagoya Univ. |

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| 17:12-17:30 | TC5.5 |
| <i>Predicting Arrival Times of Buses Using Real-Time GPS Measurements</i> , pp. 1227-1232. | |
| Sinn, Mathieu | IBM Res. |
| Yoon, Ji Won | IBM Res. |
| Calabrese, Francesco | IBM Res. |
| Bouillet, Eric | IBM Res. |
| TC6 | Katmai |
| Emergency and Freight Operation (Regular Session) | |
| 16:00-16:18 | TC6.1 |
| <i>Modeling Monetary Costs of Multi-Class Traffic Flow – Application to the Dynamic Management of Truck Lanes</i> , pp. 1233-1238. | |
| Schreiter, Thomas | Delft Univ. of Tech. |
| Pel, Adam | Delft Univ. of Tech. |
| van Lint, Hans | Delft Univ. of Tech. |
| Hoogendoorn, Serge | Delft Univ. of Tech. |
| 16:18-16:36 | TC6.2 |
| <i>Freight Origin-Destination Estimation Based on Multiple Data Sources</i> , pp. 1239-1244. | |
| Ma, Yinyi | Erasmus Univ. |
| Van Zuylen, H.J. | Delft Univ. of Tech. |
| Kuik, Roelof | Erasmus Univ. Rotterdam |
| 16:36-16:54 | TC6.3 |
| <i>GPS Tracking of Freight Vehicles to Identify and Classify Bottlenecks</i> , pp. 1245-1249. | |
| Dailey, Daniel J. | Univ. of Washington |
| McCormack, Ed | Univ. of Washington |
| Zhao, Wenjuan | Washington State Department of Transportation |
| 16:54-17:12 | TC6.4 |
| <i>The Multi-Modal Evacuation System (MES) for Baltimore Metropolitan Region</i> , pp. 1250-1257. | |
| Zhang, Xin | Univ. of Maryland |
| Chang, Gang-Len | UMD |
| TC7 | King Salmon |
| Emergency Operation and Management (Regular Session) | |
| 16:00-16:18 | TC7.1 |
| <i>Multi-Objective Optimization Model Based on Heuristic Ant Colony Algorithm for Emergency Evacuation</i> , pp. 1258-1262. | |
| Duan, Pengfei | Wuhan Univ. of Tech. |
| Xiong, Shengwu | Wuhan Univ. of Tech. |
| Jiang, Hongxin | Wuhan Univ. of Tech. |
| 16:18-16:36 | TC7.2 |
| <i>Sensitivity Analysis of Driver Behavior under Emergency Conditions (I)</i> , pp. 1263-1268. | |
| Prionisti, Elena | National Tech. Univ. of Athens |
| Antoniou, Constantinos | National Tech. Univ. of Athens |
| 16:36-16:54 | TC7.3 |
| <i>Emergency Traffic Evacuation Control Based on the Orthogonal Experimental Design Method (I)</i> , pp. 1269-1273. | |
| Lv, Yisheng | Chinese Acad. of Sciences |
| Zhu, Fenghua | Inst. of Automation, Chinese Acad. of sciences |
| Miao, Qinghai | Graduate Univ. Chinese Acad. of Sciences |
| Ye, Peijun | Inst. of Automation, Chinese Acad. of Sciences |
| Chen, Songhang | Chinese Acad. of Sciences |
| 16:54-17:12 | TC7.4 |
| <i>An RFID-Based Inventory Management Framework for Efficient Emergency Relief Operations</i> , pp. 1274-1279. | |
| Ozguven, Eren Erman | Rutgers Univ. |
| Ozbay, Kaan | Rutgers, The State Univ. of NJ |

| TC8 | | Lupine |
|---|--|------------------------------------|
| Parking Technologies (Regular Session) | | |
| 16:00-16:18 | | TC8.1 |
| <i>Detection of Parking Spots Using 2D Range Data</i> , pp. 1280-1287. | | |
| Zhou, Jifu | | Carnegie Mellon Univ. |
| Navarro-Serment, Luis | | Carnegie Mellon Univ. |
| Hebert, Martial | | Carnegie Mellon Univ. |
| 16:18-16:36 | | TC8.2 |
| <i>A New Base Stations Placement Approach for Enhanced Vehicle Position Estimation in Parking Lot</i> , pp. 1288-1293. | | |
| Kiwan, H. | | Univ. of Regina |
| Bais, A. | | Univ. of Regina |
| Morgan, Y. L. | | Univ. of Regina |
| 16:36-16:54 | | TC8.3 |
| <i>Fully-Automatic Recognition of Various Parking Slot Markings in Around View Monitor (AVM) Image Sequences</i> , pp. 1294-1299. | | |
| Suhr, Jae Kyu | | Hanyang Univ. |
| Jung, Ho Gi | | Hanyang Univ. |
| 16:54-17:12 | | TC8.4 |
| <i>Computationally Inexpensive Parallel Parking Supervisor Based on Video Processing</i> , pp. 1300-1305. | | |
| Espejo, Caterina | | Pontificia Univ. Catolica del Peru |
| Rodriguez, Paul | | Pontificia Univ. Catolica del Peru |

Technical Program for Wednesday September 19, 2012

| WA1 | | Chart |
|---|--|---|
| Driver Assist Systems - Traffic Signal/Sign Recognition (Regular Session) | | |
| 09:00-09:18 | | WA1.1 |
| <i>Impact of Introducing Signal Recognition Enhancement System on Traffic Flow at Signalized Intersection</i> , pp. 1306-1309. | | |
| Nakazawa, Masatoshi | | City of Yokohama |
| Fukuda, Atsushi | | Nihon Univ. |
| Suzuki, Hironori | | Nippon Inst. of Tech. |
| Okamura, Makoto | | Almec Corp. |
| 09:18-09:36 | | WA1.2 |
| <i>Traffic Sign Detection and Analysis: Recent Studies and Emerging Trends</i> , pp. 1310-1314. | | |
| Møgelmoose, Andreas | | Aalborg Univ. |
| Trivedi, Mohan M. | | Univ. of California at San Diego |
| Moeslund, Thomas | | Aalborg Univ. |
| 09:36-09:54 | | WA1.3 |
| <i>Suspended Traffic Lights Detection and Distance Estimation Using Color Features</i> , pp. 1315-1320. | | |
| Diaz-Cabrera, Moises | | Univ. of Las Palmas de Gran Canaria |
| Cerri, Pietro | | Univ. of Parma |
| Sanchez-Medina, Javier J. | | Univ. of Las Palmas de Gran Canaria |
| 09:54-10:12 | | WA1.4 |
| <i>Visibility Estimation of Traffic Signals under Rainy Weather Conditions for Smart Driving Support</i> , pp. 1321-1326. | | |
| Sato, Ryuhei | | Nagoya Univ. |
| Doman, Keisuke | | Nagoya Univ. |
| Deguchi, Daisuke | | Nagoya Univ. |
| Mekada, Yoshito | | Chukyo Univ. |
| Ide, Ichiro | | Nagoya Univ. |
| Murase, Hiroshi | | Nagoya Univ. |
| Tamatsu, Yukimasa | | DENSO Corp. |
| WA2 | | Denali |
| Advanced Vehicle Technologies 1 (Regular Session) | | |
| 09:00-09:18 | | WA2.1 |
| <i>Vehicle Control Based on a LPV Control and a Nonlinear Control to Detect Critical Driving Situation Due to High Dynamic Loads</i> , pp. 1327-1332. | | |
| Menhour, Lghani | | Mathématiques et Systèmes CAOR |
| Charara, Ali | | HEUDIASYC UMR UTC/CNRS 6599 |
| Lechner, Daniel | | INRETS-MA |
| 09:18-09:36 | | WA2.2 |
| <i>Nonlinear Observers of Tire Forces and Sideslip Angle Estimation Applied to Road Safety: Simulation and Experimental Validation</i> , pp. 1333-1338. | | |
| Wang, Bin | | HEUDIASYC UMR UTC/CNRS 7253 |
| Cheng, Qi | | Heudiasyc |
| Victorino, Alessandro | | Univ. de Tech. de Compiègne, Département deGenieInfor |
| Charara, Ali | | HEUDIASYC UMR UTC/CNRS 6599 |
| 09:36-09:54 | | WA2.3 |
| <i>Traffic Situation Assessment by Recognizing Interrelated Road Users</i> , pp. 1339-1344. | | |
| Platho, Matthias | | Univ. of Ilmenau |
| Gross, Horst-Michael | | Ilmenau Univ. of Tech. |
| Eggert, Julian | | Honda Res. Inst. Europe GmbH |
| 09:54-10:12 | | WA2.4 |
| <i>Genesis of Booster Curves in Electric Power Assistance Steering Systems</i> , pp. 1345-1350. | | |
| Ciarla, Valentina | | GipsaLab |

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| Cahouet, Violaine | Univ. Joseph Fourier GipsaLab |
| Canudas de Wit, Carlos | Grenoble |
| Quaine, Franck | Univ. Joseph Fourier GipsaLab |

10:12-10:30 WA2.5

Temporal Association Rule Mining for the Preventive Diagnosis of Onboard Subsystems within Floating Train Data Framework, pp. 1351-1356.

| | |
|--------------------------|-----------------------|
| Sammouri, Wissam | UPE, IFSTTAR, GRETTIA |
| Come, Etienne | UPE, IFSTTAR, GRETTIA |
| Oukhellou, Latifa | UPE, IFSTTAR, GRETTIA |
| Aknin, Patrice | UPE, IFSTTAR, GRETTIA |
| Fonlladosa, Charles-Eric | Alstom Transport |
| Prendergast, Kevin | Alstom Transport |

WA3 Dillingham
Vehicle Localization and Autonomous Navigation 1 (Regular Session)

09:00-09:18 WA3.1

Real Time Localization, Path Planning and Motion Control for Autonomous Parking in Cluttered Environment with Narrow Passages, pp. 1357-1364. [Attachment](#)

| | |
|----------------------------|--------------------|
| Tehrani Nik Nejad, Hossein | DENSO Corp. |
| Do, Quoc Huy | Toyota Tech. Inst. |
| Sakai, Ryohei | Toyota Tech. Inst. |
| Han, Long | Toyota Tech. Inst. |
| Mita, Seiichi | Toyota Tech. Inst. |

09:18-09:36 WA3.2

Multi-Sensor Localization – Visual Odometry As a Low Cost Proprioceptive Sensor, pp. 1365-1370.

| | |
|-------------------|--------------------|
| Bak, Adrien | DxO Lab. |
| Gruyer, Dominique | IFSTTAR |
| Bouchafa, Samia | Univ. Paris Sud XI |
| Aubert, Didier | IFSTTAR |

09:36-09:54 WA3.3

Continually Improving Large Scale Long Term Visual Navigation of a Vehicle in Dynamic Urban Environments, pp. 1371-1376.

| | |
|--------------------|--------------|
| Churchill, Winston | Oxford Univ. |
| Newman, Paul | Oxford Univ. |

09:54-10:12 WA3.4

A Sequential Test for Autonomous Localisation of Map Errors for Driving Assistance Systems, pp. 1377-1382.

| | |
|-----------------------|--|
| Zinoune, Clément | Univ. of Tech. of Compiègne, Renault SAS |
| Bonnifait, Philippe | Univ. of Tech. of Compiègne |
| Ibanez Guzman, Javier | Renault S.A.S, |

WA4 Fireweed
ITS Implementations 2 (Regular Session)

09:00-09:18 WA4.1

Motion Stereo-Based Collision Avoidance for an Intelligent Smart Car Door System, pp. 1383-1389.

| | |
|---------------------------|---|
| Scharfenberger, Christian | Univ. of Waterloo |
| Chakraborty, Samarjit | Tech. Univ. München |
| Zelek, John | Univ. of Waterloo, Systems Design Engineering, Canada |
| Clausi, David | Univ. of Waterloo, Systems Design Engineering, Canada |

09:18-09:36 WA4.2

Mobile Based Event-Activated Vehicle Tracking in Urban Environments, pp. 1390-1395.

| | |
|------------------------|--------------------------------|
| Srinivasa, Ramakrishna | Intel Tech. |
| Agnihotri, Samar | The Chinese Univ. of Hong Kong |
| Jadhupathi, Prem | Mphasis |
| Namballa, Revathipathi | Mphasis |

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| 09:36-09:54 | WA4.3 |
| <i>Hybridization of Appearance and Symmetry for Vehicle-Logo Localization</i> , pp. 1396-1401. | |
| Zhou, Kai | Automation and Control Inst. Vienna Univ. |
| Varadarajan, Karthik Mahesh | ACIN, TU Vienna |
| Vincze, Markus | ACIN, TU Vienna |
| Liu, Fuqiang | Tongji Univ. |

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| 09:54-10:12 | WA4.4 |
| <i>Research on Compressed EKF Based SLAM Algorithm for Unmanned Underwater Vehicle</i> , pp. 1402-1406. | |
| Wang, Hongjian | Automation Coll. Harbin Engineering Univ. |
| Li, Cun | Automation Coll. Harbin Engineering Univ. |
| Lv, Hongli | Automation Coll. Harbin Engineering Univ. |
| Chen, Xinghua | Automation Coll. Harbin Engineering Univ. |

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| WA5 | Iliamna |
| Simulation and Modeling 1 (Regular Session) | |

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| 09:00-09:18 | WA5.1 |
| <i>Link Observability without Path Enumeration: A Revisit</i> , pp. 1407-1410. | |
| Ng, ManWo | Old Dominion Univ. |

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| 09:18-09:36 | WA5.2 |
| <i>Measurement of Heavy Traffic Using Temporal Template</i> , pp. 1411-1416. | |
| Tsukanome, Takuma | Hirosaki Univ. |
| Onoguchi, Kazunori | Hirosaki Univ. |

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| 09:36-09:54 | WA5.3 |
| <i>Calibration of CORSIM Models Considering All Model Parameters Simultaneously</i> , pp. 1417-1422. | |
| Paz, Alexander | Univ. of Nevada, Las Vegas |
| Molano, Victor | Univ. of Nevada, Las Vegas |
| Gaviria, Carlos | Univ. of Cauca |

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| 09:54-10:12 | WA5.4 |
| <i>Traffic Jam Modeling and Simulation (I)</i> , pp. 1423-1428. | |
| Yin, Derek | Univ. of Alberta |
| Qiu, Tony | Univ. of Alberta |

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| 10:12-10:30 | WA5.5 |
| <i>Dynamic Model Development of Performance Indices for Planning of Sustainable Transportation Systems</i> , pp. 1924-1930. | |
| Maheshwari, Pankaj | Univ. of Nevada, Las Vegas |
| Khaddar, Romesh | Univ. of Nevada, Las Vegas |
| Kachroo, Pushkin | Univ. of Nevada, Las Vegas |
| Paz, Alexander | Univ. of Nevada, Las Vegas |
| Shlayan, Neveen | Univ. of Nevada, Las Vegas |

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| WA6 | Katmai |
| Intelligent Solutions for Air Transportation and Air Space – (ISATAS) (Special Session) | |

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| Organizer: Castro, António | LIACC, Univ. of Porto |
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| 09:00-09:18 | WA6.1 |
| <i>Towards an Autonomous and Intelligent Airline Operations Control (I)</i> , pp. 1429-1434. | |
| Castro, António J. M. | LIACC, Univ. of Porto |
| Rocha, Ana Paula | Faculty of Engineering of Porto (Portugal) |
| Oliveira, Eugénio | Faculty of Engineering, Univ. of Porto |

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| 09:18-09:36 | WA6.2 |
| <i>Revisit the Fairness Issues in Flight Landing Scheduling</i> , pp. 1435-1440. | |
| Wang, Yong | National Univ. of Defense Tech. |
| Wang, Feng | The Univ. of Mississippi |
| Wang, Dan | The Hong Kong Pol. Univ. |
| Gong, Zhenghu | National Univ. of Defense Tech. |

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| Liu, Jiangchuan | Simon Fraser Univ. |
| 09:36-09:54 | WA6.3 |
| <i>Analysis of Aircraft Trajectories Using Fourier Descriptors and Kernel Density Estimation</i> , pp. 1441-1446. | |
| Annoni Jr., Ronald | Inst. Tecnológico de Aeronautica |
| Forster, Carlos H. Q. | Inst. Tecnológico de Aeronautica |
| 09:54-10:12 | WA6.4 |
| <i>Optimal Configuration for Intersecting Flows of Aircraft</i> , pp. 1447-1452. | |
| Huang, Shimeng | Univ. of Pittsburgh |
| Feron, Eric | Georgia Inst. of Tech. |
| Mao, Zhi-Hong | Univ. of Pittsburgh |
| WA7 | King Salmon |
| Weather Response Systems (Regular Session) | |
| 09:00-09:18 | WA7.1 |
| <i>907-Plow - Anchorage's Approach to Real-Time Snowplow Tracking</i> , pp. 1453-1458. | |
| Menard, Timothy | Univ. of Alaska, Anchorage |
| Lund, John | Univ. of Alaska Anchorage |
| Miller, Jeffrey | Univ. of Alaska Anchorage |
| Petersen, Todd | Univ. of Alaska Anchorage |
| 09:18-09:36 | WA7.2 |
| <i>Impact Assessment of Network Reliability with Route Information under Severe Weather</i> , pp. 1459-1464. | |
| Ho, Wei-Ming | National Cheng Kung Univ. |
| Chen, Li-Wen | Chung Hua Univ. |
| Hu, Ta-Yin | National Cheng Kung Univ. |
| 09:36-09:54 | WA7.3 |
| <i>A Prototype for a Real-Time Weather Responsive System</i> , pp. 1465-1470. | |
| Krings, Axel | Univ. of Idaho |
| Serageldin, Ahmed | Univ. of Idaho |
| Abdel-Rahim, Ahmed | Univ. of Idaho |
| 09:54-10:12 | WA7.4 |
| <i>Simulation Analysis of Longitudinal Ventilation System with Jet Fan Speed Control for MPC Strategy in a Road Tunnel</i> , pp. 1471-1476. | |
| Tan, Zhen | Zhejiang Univ. |
| Huang, Zhiyi | Zhejiang Univ. |
| Wu, Ke | Zhejiang Univ. |
| Xu, Leiting | Hang Zhou Urban Infrastructure Construction and Development Cent |
| WA8 | Lupine |
| Traffic Data Fusion (Regular Session) | |
| 09:00-09:18 | WA8.1 |
| <i>Traffic State Estimation Based on Data Fusion Techniques (I)</i> , pp. 1477-1482. | |
| Cipriani, Ernesto | Univ. di Roma Tre |
| Gori, Stefano | Univ. di Roma Tre |
| Mannini, Livia | Univ. di Roma Tre |
| 09:18-09:36 | WA8.2 |
| <i>Current State and Future Outlook of Traffic Data Fusion in London</i> , pp. 1483-1488. | |
| Hu, Jun | Imperial Coll. London |
| Kaparias, Ioannis | City Univ. London |
| Bell, Michael Geoffrey Harrison | Imperial Coll. London |
| 09:36-09:54 | WA8.3 |
| <i>First Order Velocity Based Travel Time Model</i> , pp. 1489-1494. | |
| Farokhi Sadabadi, Kaveh | Univ. of Maryland |
| Haghani, Ali | Univ. of Maryland |

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| 09:54-10:12 | WA8.4 |
| <p><i>Conde Bento, Luis Manuel</i> Inst. de Sistemas e Robotica <i>Nunes, Urbano</i> Inst. de Sistemas e Robotica <i>Parafita, Ricardo Jorge Pedrosa</i> Inst. de Sistemas e Robótica - Univ. de Coimbra</p> | |

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| WB1 | Chart |
| Driver Assistance Systems 1 (Regular Session) | |

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| 11:00-11:18 | WB1.1 |
| <p><i>Comparison of Model Reference and Map Based Control Method for Vehicle Stability Enhancement</i>, pp. 1503-1508.</p> <p><i>Baek, Seunghwan</i> Inje Univ. <i>Son, Minhyuk</i> TNO Automotive Korea <i>Boo, Kwangsuk</i> Inje Univ. <i>Kim, Heungseob</i> Inje Univ. <i>Song, Jeonghoon</i> Tongmyong Univ.</p> | |

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| 11:18-11:36 | WB1.2 |
| <p><i>Using Grid Maps to Reduce the Number of False Positive Measurements in Advanced Driver Assistance Systems</i>, pp. 1509-1514.</p> <p><i>Nuss, Dominik</i> Univ. of Ulm <i>Reuter, Stephan</i> Univ. of Ulm <i>Konrad, Marcus</i> EvoBus GmbH - Daimler Buses <i>Munz, Michael</i> - <i>Dietmayer, Klaus</i> Univ. of Ulm</p> | |

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| 11:36-11:54 | WB1.3 |
| <p><i>Are Drivers Aware of Their Behavior Changes When Using In-Vehicle Systems</i>, pp. 1515-1518.</p> <p><i>Yang, Yan</i> Univ. of Southampton <i>McDonald, Mike</i> Univ. of Southampton <i>Bryan, Reimer</i> Massachusetts Inst. of Tech. <i>Bruce, Mehler</i> Massachusetts Inst. of Tech.</p> | |

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| 11:54-12:12 | WB1.4 |
| <p><i>Real-Time Vehicle Detection by Parts for Urban Driver Assistance</i>, pp. 1519-1524.</p> <p><i>Sivaraman, Sayanan</i> Univ. of California at San Diego <i>Trivedi, Mohan M.</i> Univ. of California at San Diego</p> | |

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| WB2 | Denali |
| Driver Assistance Systems 2 (Regular Session) | |

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| 11:00-11:18 | WB2.1 |
| <p><i>An Analysis on Users' Evaluation for Self-Balancing Two-Wheeled Personal Mobility Vehicles</i>, pp. 1525-1530.</p> <p><i>Ando, Ryosuke</i> TTRI (Toyota Transportation Res. Inst.) <i>Li, Ang</i> Urban Transport Center, Ministry of Housing and Urban-Rural Devel</p> | |

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| 11:18-11:36 | WB2.2 |
| <p><i>Fault-Tolerant Controller Design for Automated Guided Vehicle Systems Based on Petri Nets</i>, pp. 1531-1536.</p> <p><i>Yan, Jiaxiang</i> Indiana Univ. Univ. Indianapolis (IUPUI) <i>Li, Lingxi</i> Indiana Univ. Univ. Indianapolis (IUPUI)</p> | |

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| 11:36-11:54 | WB2.3 |
| <p><i>Reachability Analysis of Cooperative Adaptive Cruise Controller</i>, pp. 1537-1542.</p> <p><i>Kianfar, Roozbeh</i> Chalmers Univ. of Tech. <i>Falcone, Paolo</i> Chalmers Univ. of Tech. <i>Fredriksson, Jonas</i> Chalmers Univ. of Tech.</p> | |

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| 11:54-12:12 | WB2.4 |
| <p><i>Driver Assistance Systems Modeling by Model Predictive Control</i>, pp. 1543-1548.</p> <p><i>Wang, Meng</i> Delft Univ. of Tech. <i>Daamen, Winnie</i> Delft Univ. of Tech.</p> | |

Hoogendoorn, Serge
van Arem, Bart

Delft Univ. of Tech.
Delft Univ. of Tech.

| WB3 | | Dillingham |
|---|--|--|
| Vehicle Localization and Autonomous Navigation 2 (Regular Session) | | |
| 11:00-11:18 | | WB3.1 |
| <i>Positioning Accuracy Improvement Via Distributed Location Estimate in Cooperative Vehicular Networks</i> , pp. 1549-1554. | | |
| Liu, Kai | | Nanyang Tech. Univ. |
| Lim, Hock Beng | | Intelligent Systems Centre, Nanyang Tech. Univ. |
| 11:18-11:36 | | WB3.2 |
| <i>Communicationless Navigation through Robust Visual Odometry</i> , pp. 1555-1560. | | |
| Van Hamme, David | | Univ. Coll. Ghent |
| Veelaert, Peter | | Ghent Univ. - Univ. Coll. Ghent |
| Philips, Wilfried | | Ghent Univ. IBBT |
| 11:36-11:54 | | WB3.3 |
| <i>Lightweight Lane Positioning of Vehicles Using a Smartphone GPS by Monitoring the Distance from the Center Line</i> , pp. 1561-1565. | | |
| Sekimoto, Yoshihide | | Univ. of Tokyo |
| Matsubayashi, Yutaka | | Kokusai Kogyo Co., Ltd. |
| Yamada, Harutoshi | | Center for Spatial Information Science, Univ. of Tokyo |
| Imai, Ryuichi | | National Inst. of Land and Infrastructure Management, MLIT |
| Usui, Tomotaka | | Center for Spatial Information Science, Univ. of Tokyo |
| Kanasugi, Hiroshi | | Inst. of Industrial Science, Univ. of Tokyo |
| 11:54-12:12 | | WB3.4 |
| <i>Illumination Robust Road Detection Using Geometric Information</i> , pp. 1566-1571. | | |
| Oh, Changbeom | | Yonsei Univ. |
| Son, Jongin | | Yonsei Univ. |
| Sohn, Kwanghoon | | Yonsei Univ. |
| WB4 | | Fireweed |
| ITS Implementations 1 (Regular Session) | | |
| 11:00-11:18 | | WB4.1 |
| <i>A Distributed Algorithm for Adaptive Traffic Lights Control</i> , pp. 1572-1577. | | |
| Faye, Sébastien | | Telecom Paris Tech |
| Chaudet, Claude | | Telecom Paris Tech |
| Demeure, Isabelle | | Télécom Paris Tech |
| 11:18-11:36 | | WB4.2 |
| <i>DVS: A Distributed Virtual Signboard for Information Dissemination and Preservation in Vehicular Networks</i> , pp. 1578-1583. | | |
| Hu, Zhengqing | | Nanyang Pol. |
| Motani, Mehul | | National Univ. of Singapore |
| 11:36-11:54 | | WB4.3 |
| <i>Vehicle Mass Estimation Using a Total Least-Squares Approach</i> , pp. 1584-1589. | | |
| Rhode, Stephan | | Karlsruhe Inst. of Tech. |
| Gauterin, Frank | | Karlsruhe Inst. of Tech. |
| 11:54-12:12 | | WB4.4 |
| <i>Application of Reinforcement Learning with Continuous State Space to Ramp Metering in Real-World Conditions</i> , pp. 1590-1595. | | |
| Rezaee, Kasra | | Univ. of Toronto |
| Abdulhai, Baher | | Univ. of Toronto |
| Abdelgawad, Hossam | | Univ. of Toronto |
| WB5 | | Iliamna |
| Simulation and Modeling 3 (Regular Session) | | |

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| 11:00-11:18 | WB5.1 |
| <i>A K-Nearest Neighbor Locally Weighted Regression Method for Short-Term Traffic Flow Forecasting</i> , pp. 1596-1601. | |
| Li, Shuangshuang | Inst. of Automation, Chinese Acad. of Sciences |
| Shen, Zhen | Inst. of Automation, Chinese Acad. of Sciences |
| Zhu, Fenghua | Inst. of Automation, Chinese Acad. of Sciences |
| Xiong, Gang | Inst. of Automation, Chinese Acad. of Sciences |
| 11:18-11:36 | WB5.2 |
| <i>Scalability in Urban Autonomy through Overlapping Decompositions of Hybrid-State Systems</i> , pp. 1602-1607. | |
| Kurt, Arda | The Ohio State Univ. |
| Ozguner, Umit | The Ohio State Univ. |
| 11:36-11:54 | WB5.3 |
| <i>Networked Driving Simulator Based on SIGVerse and Lane-Change Analysis According to Frequency of Driving</i> , pp. 1608-1613. | |
| Bando, Takashi | DENSO Corp. |
| Shibata, Tomohiro | Nara Inst. of Science and Tech. |
| 11:54-12:12 | WB5.4 |
| <i>Parameter Sensitivity Analysis of a Cooperative System by Means of Microscopic Traffic Simulation</i> , pp. 1614-1619. | |
| Riemann, Raffaella | TUM CREATE - Centre for Electromobility |
| Baur, Mathias | Tech. Univ. München |
| Fullerton, Matthew | Tech. Univ. München |
| WB6 Katmai | |
| Travel Time Estimation and Its Applications (Regular Session) | |
| 11:00-11:18 | WB6.1 |
| <i>Towards an Uncertainty Aware Short-Term Travel Time Prediction Using GPS Bus Data: Case Study in Dublin</i> , pp. 1620-1625. | |
| Trigueiro Baptista, Arthur | Royal Inst. of Tech. KTH, Sweden |
| Bouillet, Eric | IBM Res. |
| Pompey, Pascal | IBM |
| 11:18-11:36 | WB6.2 |
| <i>Reliability in Stochastic Time-Dependent Traffic Networks with Correlated Link Travel Times</i> , pp. 1626-1631. | |
| Dong, Wei | Swinburne Univ. of Tech. |
| Li, Minyi | Swinburne Univ. of Tech. |
| Vo, Quoc Bao | Swinburne Univ. of Tech. |
| Vu, Hai L. | Swinburne Univ. of Tech. |
| 11:36-11:54 | WB6.3 |
| <i>Unscented Kalman Filter for Urban Link Travel Time Estimation with Mid-Link Sinks and Sources</i> , pp. 1632-1637. | |
| Hage, Ré-mi | IFSTTAR |
| Bétaille, David | IFSTTAR |
| Peyret, Francois | IFSTTAR |
| Meizel, Dominique | ENSIL |
| Smal, Jean-christophe | IFSTTAR |
| 11:54-12:12 | WB6.4 |
| <i>Practical Time-Dependent and Stochastic Routing with Historical Measurements of Travel Times</i> , pp. 1638-1643. | |
| Demeyer, Sofie | Ghent Univ. |
| Audenaert, Pieter | Ghent Univ. |
| Logghe, Steven | Be-Mobile |
| Pickavet, Mario | Ghent Univ. |
| Demeester, Piet | Ghent Univ. |
| 12:12-12:30 | WB6.5 |
| <i>Evaluation of Travel Time Estimation Based on LWR-V and CTM-V: A Case Study in Stockholm</i> , pp. 1644-1649. | |
| Allström, Andreas | Linköping Univ. |
| Gundlegård, David | Linköping Univ. |
| Rydergren, Clas | Linköping Univ. |

| WB7 | | King Salmon |
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| Traffic Flow Management (Regular Session) | | |
| 11:00-11:18 | | WB7.1 |
| <i>Compare Linear Interpolation and Adaptive Smoothing Methods on Traffic Flow Information Reconstruction</i> , pp. 1650-1655. | | |
| Guo, Wei | | Tsinghua Univ. |
| Wang, Qi | | Tsinghua Univ. |
| Li, Zhiheng | | Tsinghua Univ. |
| Zhang, Yi | | Tsinghua Univ. |
| Li, Li | | Tsinghua Univ. |
| Zhang, Zuo | | Tsinghua Univ. |
| 11:18-11:36 | | WB7.2 |
| <i>The Optimal Discretized Timing Plan for Individual Oversaturated Intersections</i> , pp. 1656-1660. | | |
| Zou, Bin | | Tsinghua Univ. |
| Hu, Jianming | | Tsinghua Univ. |
| Zhang, Yi | | Tsinghua Univ. |
| 11:36-11:54 | | WB7.3 |
| <i>Towards a Realistic Optimization of Urban Traffic Flows</i> , pp. 1661-1668. | | |
| Angius, Fabio | | Univ. of California |
| Reineri, Massimo | | Pol. di Torino |
| Chiasserini, Carla Fabiana | | Pol. di Torino |
| Gerla, Mario | | Univ. of California |
| Pau, Giovanni | | Univ. of California |
| 11:54-12:12 | | WB7.4 |
| <i>Traffic Incident Detection by Multiple Kernel Support Vector Machine Ensemble</i> , pp. 1669-1673. | | |
| Xiao, Jianli | | Shanghai Jiao Tong Univ. |
| Liu, Yuncai | | Shanghai Jiao Tong Univ. |
| WB8 | | Lupine |
| Analysis Using Probe Vehicle Data (Regular Session) | | |
| 11:00-11:18 | | WB8.1 |
| <i>Queue Length Estimation Using Conventional Vehicle Detector and Probe Vehicle Data</i> , pp. 1674-1681. | | |
| Badillo, Brian E. | | Harmonia Holdings Group, LLC |
| Rakha, Hesham A. | | Virginia Tech. |
| Rioux, Thomas W. | | Rioux Engineering & Harmonia Holdings Group |
| Abrams, Marc | | Harmonia Holdings Group, LLC |
| 11:18-11:36 | | WB8.2 |
| <i>Wide-Area, Web-Based Mobility Analysis Using Probe Data</i> , pp. 1682-1686. | | |
| Pack, Michael | | Univ. of Maryland Center for Advanced Transportation Technolo |
| 11:36-11:54 | | WB8.3 |
| <i>Automatic Inference of Map Attributes from Mobile Data</i> , pp. 1687-1692. | | |
| Hofleitner, Aude | | Univ. of California, Berkeley |
| Come, Etienne | | UPE, IFSTTAR, GRETTIA |
| Oukhellou, Latifa | | UPE, IFSTTAR, GRETTIA |
| Lebacque, Jean-Patrick | | UPE, IFSTTAR, GRETTIA |
| Bayen, Alexandre | | Univ. of California, Berkeley |
| 11:54-12:12 | | WB8.4 |
| <i>Robust Road Link Speed Estimates for Sparse or Missing Probe Vehicle Data</i> , pp. 1693-1697. | | |
| Widhalm, Peter | | Austrian Inst. of Tech. |
| Piff, Markus | | Austrian Inst. of Tech. (AIT) |
| Brändle, Norbert | | Austrian Inst. of Tech. |
| Koller, Hannes | | Austrian Inst. of Tech. |
| Reinthaler, Martin | | Austrian Inst. of Tech. |

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| Ponweiser, Wolfgang | Austrian Inst. of Tech. |
| 12:12-12:30 | WB8.5 |
| <i>Path Inference of Low-Frequency GPS Probes for Urban Networks (I)</i> , pp. 1698-1701. | |
| Rahmani, Mahmood | KTH Royal Inst. of Tech. |
| Koutsopoulos, Haris N. | KTH Royal Inst. of Tech. |

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| WC1 | Chart |
| Driver Assistance Systems - Lateral Control (Regular Session) | |

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| 14:00-14:18 | WC1.1 |
| <i>Steering Assisting System for Obstacle Avoidance Based on Personalized Potential Field</i> , pp. 1702-1707. | |
| Noto, Noriyasu | Nagoya Univ. |
| Okuda, Hiroyuki | Nagoya Univ. |
| Tazaki, Yuichi | Nagoya Univ. |
| Suzuki, Tatsuya | Nagoya Univ. |

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| 14:18-14:36 | WC1.2 |
| <i>A New Nonlinear Observer of Sideslip Angle with Unknown Vehicle Parameter Using the Dual Unscented Kalman Filter</i> , pp. 1708-1713. | |
| Cheng, Qi | Heudiasyc |
| Victorino, Alessandro | Univ. de Tech. de Compiègne, Departement de GenieInfor |
| Charara, Ali | HEUDIASYC UMR UTC/CNRS 6599 |

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| 14:36-14:54 | WC1.3 |
| <i>Integrated Threat Assessment and Control Design for Roadway Departure Avoidance</i> , pp. 1714-1719. | |
| Gray, Andrew | Univ. of California, Berkeley |
| Ali, Mohammad | Volvo Cars |
| Gao, Yiqi | Univ. of California, Berkeley |
| Hedrick, J. Karl | Univ. of California, Berkeley |
| Borrelli, Francesco | Univ. of California, Berkeley |

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| 14:54-15:12 | WC1.4 |
| <i>Model of Collision Avoidance with Lane Departure Warning in Real-World Departure Collisions with Fixed Roadside Objects</i> , pp. 1720-1725. | |
| Kusano, Kristofer | Virginia Tech. |
| Gabler, Hampton Clay | Virginia Tech. |

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| 15:12-15:30 | WC1.5 |
| <i>Self-Defensive Coordinated Maneuvering of an Intelligent Vehicle Platoon in Mixed Traffic</i> , pp. 1726-1733. Attachment | |
| Guo, Chunzhao | Toyota Tech. Inst. |
| Wan, Nianfeng | Clemson Univ. |
| Mita, Seiichi | Toyota Tech. Inst. |
| Yang, Ming | Shanghai Jiao Tong Univ. |

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| WC2 | Denali |
| Advanced Vehicle Technologies 2 (Regular Session) | |

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| 14:00-14:18 | WC2.1 |
| <i>Anti-Trap Protection for an Intelligent Smart Car Door System</i> , pp. 1734-1740. | |
| Scharfenberger, Christian | Univ. of Waterloo |
| Chakraborty, Samarjit | Tech. Univ. München |
| Zelek, John | Univ. of Waterloo, Systems Design Engineering, Canada |
| Clausi, David | Univ. of Waterloo, Systems Design Engineering, Canada |

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| 14:18-14:36 | WC2.2 |
| <i>Optimal Braking and Steering Control for Active Safety</i> , pp. 1741-1746. | |
| Moshchuk, Nikolai | General Motors Company |
| Chen, Shih-Ken | General Motors Company |
| Zagorski, Chad | General Motors Company |
| Chatterjee, Aamarapali | General Motors Company |

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| 14:36-14:54 | WC2.3 |
| <i>Shared Control System to Safeguard Mobility of Wheeled, Actively Articulated Truck-Trailer Vehicles on Structured and Rough Terrain</i> , pp. 1747-1752. | |
| Labenda, Patrick | Ruhr-Univ. Bochum |
| 14:54-15:12 | WC2.4 |
| <i>In-Vehicle Speaker Recognition Using Independent Vector Analysis</i> , pp. 1753-1758. | |
| Yamada, Toshiro | Univ. of California at San Diego |
| Tawari, Ashish | Univ. of California at San Diego |
| Trivedi, Mohan M. | Univ. of California at San Diego |

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| WC3 | Dillingham |
| Pedestrian Detection (Regular Session) | |

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| 14:00-14:18 | WC3.1 |
| <i>Early Detection of the Pedestrian's Intention to Cross the Street</i> , pp. 1759-1764. Attachment | |
| Köhler, Sebastian | Univ. of Applied Sciences Aschaffenburg |
| Goldhammer, Michael | Univ. of Applied Sciences Aschaffenburg |
| Bauer, Sebastian | Friedrich-Alexander-Univ. Erlangen-Nuremberg |
| Doll, Konrad | Univ. of Applied Sciences Aschaffenburg |
| Brunsmann, Ulrich | Univ. of Applied Sciences Aschaffenburg |
| Dietmayer, Klaus | Univ. of Ulm |
| 14:18-14:36 | WC3.2 |
| <i>Nighttime Pedestrian Detection by Selecting Strong Near-Infrared Parts and Enhanced Spatially Local Model</i> , pp. 1765-1770. | |
| Lee, Yi-shu | National Taiwan Univ. |
| Chan, Yi-Ming | National Taiwan Univ. |
| Fu, Li-Chen | National Taiwan Univ. |
| Hsiao, Pei-Yung | National Univ. of Kaohsiung |
| Chuang, Li-An | National Taiwan Univ. |
| Chen, Yi-Hsiang | National Taiwan Univ. |
| Luo, Ming-Fang | Chung-Shan Inst. of Science and Tech. |

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| 14:36-14:54 | WC3.3 |
| <i>Video-based Pedestrian Head Pose Estimation for Risk Assessment</i> , pp. 1771-1776. | |
| Schulz, Andreas | Robert Bosch GmbH, Germany |
| Stiefelhagen, Rainer | Institute for Anthropomatics at Karlsruhe Institute of Technology, Germany |

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| 14:54-15:12 | WC3.4 |
| <i>Comparison of Granules Features for Pedestrian Detection</i> , pp. 1777-1782. | |
| Kao, Yu-Fu | National Taiwan Univ. |
| Chan, Yi-Ming | National Taiwan Univ. |
| Fu, Li-Chen | National Taiwan Univ. |
| Hsiao, Pei-Yung | National Univ. of Kaohsiung |
| Huang, Shih-Shinh | National Kaohsiung First Univ. of Science and Tech. |
| Wu, Cheng-En | National Taiwan Univ. |
| Luo, Min-Fang | Chung-Shan Inst. of Science and Tech. |

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| 15:12-15:30 | WC3.5 |
| <i>Reliable Pedestrian Recognition Combining High-Definition LIDAR and Vision Data</i> , pp. 1783-1788. | |
| Kidono, Kiyosumi | Toyota Central R&D Lab. Inc. |
| Naito, Takashi | Toyota Central R&D Lab. Inc. |
| Miura, Jun | Toyohashi Univ. of Tech. |

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| WC4 | Fireweed |
| Human Factors Studies (Regular Session) | |

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| 14:00-14:18 | WC4.1 |
| <i>Predicting Cruising Speed through Data-Driven Driver Modeling</i> , pp. 1789-1796. | |
| McNew, John-Michael | Toyota Tech. Center |

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| 14:18-14:36 | WC4.2 |
| <i>Driver Head Pose and Gaze Estimation Based on Multi-Template ICP 3D Point Cloud Alignment</i> , pp. 1797-1802. Attachment | |
| Bär, Tobias | FZI Forschungszentrum Informatik |
| Reuter, Jan-Felix | FZI Forschungszentrum Informatik |
| Zöllner, J. Marius | FZI Forschungszentrum Informatik |
| 14:36-14:54 | WC4.3 |
| <i>A Generic Concept of a System for Predicting Driving Behaviors</i> , pp. 1803-1808. | |
| Bonnin, Sarah | Bielefeld Univ. Cor-Lab. |
| Kummert, Franz | Bielefeld Univ. |
| Schmuedderich, Jens | Honda Res. Inst. Europe GmbH |
| 14:54-15:12 | WC4.4 |
| <i>IC-DEEP: A Serious Games Based Application to Assess the Ergonomics of In-Vehicle Information Systems</i> , pp. 1809-1814. | |
| Gonçalves, Joel | Univ. do Porto - DEI/FEUP |
| Rossetti, Rosaldo | Univ. do Porto - LIACC |
| Olaverri Monreal, Cristina | Faculty of Mechanical Engineering, Tech. |
| 15:12-15:30 | WC4.5 |
| <i>Coupling Instrumented Vehicles and Driving Simulators: Opportunities from the DRIVE IN2 Project</i> , pp. 1815-1820. | |
| Bifulco, Gennaro Nicola | Univ. of Naples Federico II |
| Pariota, Luigi | Univ. of Naples Federico II |
| Galante, Francesco | Univ. of Naples Federico II |
| Fiorentino, Anita | Fiat Group Automobile |
| WC5 Iliamna | |
| Simulation and Modeling 7 (Regular Session) | |
| 14:00-14:18 | WC5.1 |
| <i>Short-Term Traffic Flow Prediction Using EMD-Based Recurrent Hermite Neural Network Approach</i> , pp. 1821-1826. | |
| Chen, Syuan-Yi | Industrial Tech. Res. Inst. |
| Wei-Yao, Chou | Industrial Tech. Res. Inst. |
| 14:18-14:36 | WC5.2 |
| <i>A Micro-Simulation Model of Pedestrian-Vehicle Interaction Behavior at Unsignalized Mid-Block Locations</i> , pp. 1827-1833. | |
| Wang, Tianjiao | Univ. of Southampton |
| Wu, Jianping | Tsinghua Univ. |
| McDonald, Mike | Univ. of Southampton |
| 14:36-14:54 | WC5.3 |
| <i>Modelling Traffic Dynamics in Motorway Networks</i> , pp. 1834-1839. | |
| Fitzgerald, Aidan | Queen's Univ. Belfast |
| Marshall, Adele H. | Queen's Univ. Belfast |
| Moutari, Salissou | Queen's Univ. Belfast |
| 14:54-15:12 | WC5.4 |
| <i>Micro-Simulation Study on the Effect of On-Street Parking on Vehicular Flow</i> , pp. 1840-1845. | |
| Guo, Hongwei | Department of Transportation Engineering, Beijing Institute of Tech. |
| Wang, Wuhong | Department of Transportation Engineering, Beijing Institute of Tech. |
| Guo, Weiwei | Department of Transportation Engineering, Beijing Institute of Tech. |
| WC6 Katmai | |
| Advanced Public Transportation Systems (Regular Session) | |
| 14:00-14:18 | WC6.1 |
| <i>A Sequential Testing Approach for Change-Point Detection on Bus Door Systems</i> , pp. 1846-1851. | |
| Cheifetz, Nicolas | Univ. Paris-Est, IFSTAR/GRETTIA |
| Samé, Allou | Univ. Paris-Est, IFSTAR/GRETTIA |
| Aknin, Patrice | Univ. Paris-Est, IFSTAR/GRETTIA |
| 14:18-14:36 | WC6.2 |

Sitting, Waiting, Wishing: Waiting Time Perception in Public Transport, pp. 1852-1857.

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|---------------------|-------------------------|
| Millonig, Alexandra | Austrian Inst. of Tech. |
| Sleszynski, Marek | Austrian Inst. of Tech. |
| Ulm, Michael | Austrian Inst. of Tech. |

14:36-14:54 WC6.3

A Portable Pedometer Based on Inductive Proximity, pp. 1858-1861.

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|------------------------------|------------------------------|
| Shajahan, Sheik Mohammed Ali | Indian Inst. of Tech. Madras |
| George, Bobby | Indian Inst. of Tech. Madras |

14:54-15:12 WC6.4

Making Public Transportation Schedule Information Consumable for Improved Decision Making, pp. 1862-1867.

| | |
|-----------------------|----------|
| Gupta, Raj | IBM Res. |
| Srivastava, Biplav | IBM Res. |
| Tamilselvam, Srikanth | IBM Res. |

WC7

Experimental Investigations (Regular Session)

King Salmon

14:00-14:18 WC7.1

BSM Emulator – Advanced Vehicle Safety Application Testbed, pp. 1868-1873.

| | |
|--------------------|---|
| Gupta, Somak Datta | PATH, UC Berkeley |
| Lin, Chih-Che | Information and Communications Research Lab., Industrial Technology |
| Chan, Ching-Yao | ITS, Univ. of California at Berkeley |

14:18-14:36 WC7.2

A Robotic Platform to Evaluate Autonomous Driving Systems, pp. 1874-1879.

| | |
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| Belbachir, Assia | IFSTTAR |
| Smal, Jean-christophe | IFSTTAR : French Inst. of science and Tech. for transport |
| Blosseville, Jean-marc | IFSTTAR |

14:36-14:54 WC7.3

A System for Coupled Road Traffic Utility Maximisation and Risk Management Using VANET, pp. 1880-1887.

| | |
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| Fitzgerald, Emma | Univ. of Sydney |
| Landfeldt, Bjorn | Lund Univ. |

14:54-15:12 WC7.4

An Experimental Study on Changes of Muscle Fatigue among Utilizing Standing-Type Mobile Vehicles and Walking, pp. 1888-1893.

| | |
|--------------------|--------------------------------|
| Hashimoto, Naohisa | National Inst. of AIST |
| Sakurai, Yoshihisa | Japan Inst. of Sports Sciences |
| Suzuki, Yusuke | AIST |
| Tomita, Kohji | AIST |
| Horiuchi, Eichi | AIST |
| Matsumoto, Osamu | AIST |
| Yokozuka, Masashi | AIST |

WC8

Network Level Traffic Analysis (Regular Session)

Lupine

14:00-14:18 WC8.1

Network Zoning Based on Community Detection for Urban Traffic Control, pp. 1894-1899.

| | |
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| Chen, Cheng | Inst. of Automation, Chinese Acad. of Sciences |
| Ai, Yunfeng | Inst. of Automation, Chinese Acad. of Sciences |
| Zhu, Fenghua | Inst. of Automation, Chinese Acad. of Sciences |

14:18-14:36 WC8.2

Effects of Traffic Network Dynamics on Hierarchical Community-Based Representations of Large Road Networks, pp. 1900-1905.

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|-----------------------|-------------------|
| Movahed Nejad, Mahyar | Wayne State Univ. |
| Mashayekhy, Lena | Wayne State Univ. |

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| Chinnam, Ratna Babu | Wayne State Univ. |
| 14:36-14:54 | WC8.3 |
| <i>Markov-Based Redistribution Policy Model for Future Urban Mobility Networks</i> , pp. 1906-1911. | |
| Volkov, Mikhail | Massachusetts Inst. of Tech. |
| Rus, Daniela | MIT |
| Aslam, Javed Alexander | NEU |
| 14:54-15:12 | WC8.4 |
| <i>Modeling ITS Data Sources for Generating Realistic Traffic Operating Parameters for Project-Level Conformity Analysis</i> , pp. 1912-1917. | |
| Liu, Hao | Univ. of Cincinnati |
| Wei, Heng | Univ. of Cincinnati |
| Yao, Zhuo | Univ. of Cincinnati |
| 15:12-15:30 | WC8.5 |
| <i>A Platoon of Vehicles Approaching an Intersection: A Testing Platform for Safe Intersections</i> , pp. 1918-1923. | |
| Diab, Hilal | RWTH Aachen Univ. |
| Ben Makhlouf, Ibtissem | RWTH Aachen Univ. |
| Kowalewski, Stefan | RWTH Aachen Univ. |