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

**Technical Program for Monday September 17, 2012**

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<td>Hakuli, Stephan</td>
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<td>Winner, Hermann</td>
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<td>Franz, Benjamin</td>
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<td>Guisheng, Chen</td>
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<td>Mu, Guo</td>
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<td>Tianlei, Zhang</td>
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<td>Peng, Jia</td>
<td>Military Transportation Inst.</td>
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<td>Feng, Jin</td>
<td>X’ian Communication Inst.</td>
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| Sezer, Volkan | Istanbul Tech. Univ. |
| Ercan, Ziya | Istanbul Tech. Univ. |
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| Gokasan, Metin | Istanbul Tech. Univ. Electrical & Electronics Engineering |
| Bogosyan, Seta | Istanbul Tech. Univ. |

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<td>Talavera, Edgar</td>
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<td>TU Dortmund Univ.</td>
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<td>Dusza, Bjoern</td>
<td>TU Dortmund Univ.</td>
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<td>Wietfeld, Christian</td>
<td>TU Dortmund Univ.</td>
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#### The Multi-Adaptive Routing Protocol for Obstacles and without Obstacles on VANET

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<tr>
<td>Vijitkunsawat, Wuttichai</td>
<td>Rajamangala Univ. of Tech. Krungthep</td>
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<td>Anunvrapong, Pramote</td>
<td>Rajamangala Univ. of Tech. Krungthep</td>
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#### Cooperative Intersection Management: Real Implementation and Feasibility Study of a Sequence Based Protocol for Urban Applications

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<td>Perronnet, Florent</td>
<td>Univ. de Tech. de Belfort-Montbéliard (UTBM)</td>
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<tr>
<td>Abbas-Turki, Abdeljalil</td>
<td>Univ. de Tech. de Belfort Montbéliard</td>
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<td>Buisson, Jocelyn</td>
<td>Voxelia</td>
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<td>El Moudni, Abdellah</td>
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<td>Zéo, Renan</td>
<td>Voxelia</td>
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<td>Ahmane, Mourad</td>
<td>Univ. of Tech. of Belfort-Montbeliard (UTBM)</td>
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### Pedestrian and Vehicle Detection (Regular Session)

#### Real-Time Robust Vehicle Flow Statistics Based on Adjacent Frames Clustering

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<tr>
<td>Liu, Yan</td>
<td>Peking Univ.</td>
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<td>Lu, Xiaoqing</td>
<td>Peking Univ.</td>
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<td>Xu, Jianbo</td>
<td>Peking Univ. Founder Group Co.LTD</td>
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<td>Qin, Yeyang</td>
<td>Peking Univ.</td>
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<td>Tang, Zhi</td>
<td>Peking Univ.</td>
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#### Positioning of Road Users by RSSI with Road Surface Reflection Model

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<td>Hisaka, Shoma</td>
<td>The Univ. of Tokyo</td>
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<td>Kamijo, Shunsuke</td>
<td>The Univ. of Tokyo</td>
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#### Monocular Target Detection on Transport Infrastructures with Dynamic and Variable Environments

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<td>Alvarez Pardo, Sergio</td>
<td>Univ. of Alcala</td>
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<td>Fernandez Llorca, David</td>
<td>Univ. of Alcala</td>
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<td>Sotelo, Miguel A.</td>
<td>Univ. of Alcalá</td>
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<td>García Lorente, Alejandro</td>
<td>Univ. of Alcalá</td>
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#### Urban Road User Classification Framework Using Local Feature Descriptors and HMM

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<tr>
<td>Takahashi, Toshimitsu</td>
<td>The Univ. of Tokyo</td>
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<td>Kim, HyungKwan</td>
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<td>Kamijo, Shunsuke</td>
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#### Two-Stage Part-Based Pedestrian Detection

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<td>Magelmose, Andreas</td>
<td>Aalborg Univ.</td>
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<td>Prioretti, Antonio</td>
<td>Univ. of Parma</td>
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<td>Trivedi, Mohan M.</td>
<td>Univ. of California at San Diego</td>
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<td>Broggi, Alberto</td>
<td>Univ. of Parma</td>
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<td>Moeslund, Thomas B.</td>
<td>Aalborg Univ.</td>
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<td>Gavriilidis, Alexandros, Mueller, Dennis, Müller-Schneiders, Stefan, Kummert, Anton, Velten, Jörg</td>
<td>Univ. of Wuppertal, Delphi Electronics &amp; Safety, Delphi Deutschland GmbH, Univ. of Wuppertal</td>
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<td>Beg, Chris, Vajedi, Mahyar, Nezhad-Ahmadi, Mohammad-Reza, L. Azad, Nasser, Safavi-Naeini, Safieddin</td>
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<td>Yonsei Univ., Yonsei Univ., Yonsei Univ., Yonsei Univ.</td>
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<td>Djukic, Tamara, Flötteröd, Gunnar, van Lint, Hans, Hoogendoorn, Serge</td>
<td>Delft Univ. of Tech., KTH Royal Inst. of Tech., Delft Univ. of Tech., Delft Univ. of Tech.</td>
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Abaza, Osama
Univ. of Alaska Anchorage

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Bell, Michael Geoffrey Harrison
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Empirical Evaluation of a Dynamic and Distributed Taxi-Sharing System, pp. 140-146.
d'Orey, Pedro M.
Univ. of Porto, Inst. de Telecomunicações
Fernandes, Ricardo
Inst. de Telecomunicações
Ferreira, Michel
Inst. de Telecomunicações

Bui, Kim
Massachusetts Inst. of Tech.
Huynh, Vu
Massachusetts Inst. of Tech.
Frazzoli, Emilio
Massachusetts Inst. of Tech.

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Univ. of Nevada, Las Vegas
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Univ. of Nevada, Las Vegas
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Southeast Univ.
Ni, Fujian
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Yang, Shunxin
Southeast Univ.

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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

Dadic, Ivan
Faculty of Traffic and Transportation Sciences


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Ali, Muhammad  
Miller, Jeffrey  

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- Zhang, Sumin (Jilin Univ.)
- Deng, Weiwien (General Motors Corp.)
- Wang, Ye (Jilin Univ.)
- 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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- Deng, Zhidong (Tsinghua Univ.)
- Chen, Zhenhuan (Tsinghua Univ.)

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- Kühl, Tobias (Bielefeld Univ.)
- Kummert, Franz (Bielefeld Univ.)
- Fritsch, Jannik (Honda Res. Inst. Europe GmbH)

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- Ross, Ralph Werner (Karlsruhe Inst. of Tech.)

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- Kitt, Bernd (KIT)
- Lategahn, Henning (Inst. of Measurement & Control)

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- Velten, Joerg (Univ. of Wuppertal)
- Schauland, Sam (Univ. of Wuppertal)
- Gavrilidis, Alexandros (Riedel Communications)
- Schwerdtfeger, Tim (Univ. of Wuppertal)
- Boschen, Fritz (Univ. of Wuppertal)
- Kummert, Anton (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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**Agent-Based Methods for Modeling and Analysis (Regular Session)**

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<td>El-Tantawy, Samah, Abdulhai, Baher</td>
<td>Univ. of Toronto</td>
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<td>14:36-15:12</td>
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<td>Approximately Orchestrated Routing and Transportation Analyzer: Large-Scale Traffic Simulation for Autonomous Vehicles, pp. 334-339.</td>
<td>Carlino, Dustin, Depinet, Michael, Khandelwal, Piyush, Stone, Peter</td>
<td>Univ. of Texas at Austin, The Univ. of Texas at Austin</td>
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**Traveler Information (Regular Session)**

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<td>Weikl, Simone, Dr. Bogenberger, Klaus</td>
<td>Univ. of Federal Armed Forces Munich, Univ. of Federal Armed Forces Munich</td>
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<td>A Model for Automatic Collection and Dynamic Transmission of Traffic Information Based on VANET, pp. 373-378.</td>
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  Li, Yu-Wei National Chiao Tung Univ.  
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  Li, Weixia Tsinghua Univ.  
  Li, Zhiheng Tsinghua Univ.  
  Tan, Jiuyuan Tsinghua Univ.  
  Yao, Danya Tsinghua Univ.  
  Li, Li Tsinghua Univ.  
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  Yang, Wencheng School of Transportation Engineering, Tongji Univ.  
  Zhang, Lun School of Transportation Engineering, Tongji Univ.  
  He, Zhaocheng Intelligent Transportation Res. Centre, Sun Yat-senUniverst  
  Zhuang, Lijian Intelligent Transportation Res. Centre, Sun Yat-senUniverst  
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  Corey, Jonathan Univ. of Washington  
  Lao, Yunteng Univ. of Washington  
  Xin, Xin Univ. of Washington  
  Wang, Yinhai Univ. of Washington  

### MB8

#### Eco Driving and Energy Efficient Intelligent Infrastructure 2 (Regular Session)

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  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.  
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*Pechberti, Steve* IFSTTAR
*Gruyer, Dominique* IFSTTAR
*Vigneron, Vincent* Univ. d'Evry - Informatique, Biologie Intégrative etSystème


*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

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*Dhakal, Sagar* Res. In Motion
*Jia, Yupeng* Univ. of Rochester
*Nguyen, Nam* Res. In Motion

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*Bulan, Orhan* Xerox Corp.
*Bernal, Edgar* Xerox Corp.
*Loce, Robert* Xerox Corp.
*Wu, Wencheng* Xerox Corp.

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*Shajahan, Sheik Mohammed Ali* Indian Inst. of Tech. Madras
*Joshi, Niranjan* Indian Inst. of Tech. Madras
*George, Boby* Indian Inst. of Tech. Madras
*Vanajakshi, Lelitha* Indian Inst. of Tech. Madras


*Rajab, Samer* Univ. of Oklahoma
*Othman, Ahmad* The Univ. of Oklahoma
*Refai, Hazem* The Univ. of Oklahoma


*Karaduman, Ozgur* Firat Univ.
*Eren, Haluk* Firat Univ.
*Kurum, Hasan* Firat Univ.
*Celenk, Mehmet* The Ohio Univ.

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*Bertozzi, Massimo* Univ. of Parma - Italy
*Bombolini, Luca* Univ. of Parma - Italy
*Broggi, Alberto* Univ. of Parma - Italy
*Coati, Alessandro* Univ. of Parma - Italy
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<td>Bullock, Darcy Purdue Univ.</td>
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<td>Geroliminis, Nikolas Ec. Pol. Fédérale de Lausanne</td>
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<td>Rakha, Hesham A. Virginia Tech.</td>
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<td>Wang, J.Y. National Chiao Tung Univ.</td>
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<td>Frazzoli, Emilio Massachusetts Inst. of Tech.</td>
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<td>Wang, Danwei Nanyang Tech. Univ.</td>
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<td>Donat, Wolfram Univ. of Alaska Anchorage</td>
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<td>Harris, John Univ. of Alaska Anchorage</td>
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<td>Alsabaan, Maazen Univ. of Waterloo and King Saud Univ.</td>
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Corti, Andrea  
Manzoni, Vincenzo  
Savarese, Sergio  
Pol. di Milano

Petrlik, Jiri  
Korcek, Pavol  
Fucik, Otto  
Beszedes, Marian  
Sekanina, Lukas  
Brno Univ. of Tech.
Camea spol. s r.o.
Brno Univ. of Tech.
Brno Univ. of Tech.
## Technical Program for Tuesday September 18, 2012

### TPL1

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<td>Beijing Jiaotong Univ.</td>
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<td>Tokyo Univ. of Science</td>
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<td>The Univ. of Texas at Dallas, The Univ. of Texas at Dallas, Univ. of Texas at Dallas</td>
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Aparicio, Juan  
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Tas, Nazif  

Siemens Corp. Res. and Tech.

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Kunert, Kristina  
Böhm, Annette  

Halmstad Univ.

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Qiao, Yijun  
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The Univ. of Texas at Austin  
Texas Southern Univ.

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Zheng, Chenyu  
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Zhongqiang, Zhai  
Yang, Yu  
Nengqiang, He  
Sicker, Douglas  
Ren, Yong  

Tsinghua Univ.  
Univ. of Colorado  
Tsinghua Univ.  
Tsinghua Univ.  
Tsinghua Univ.  
Tsinghua Univ.  
Univ. of Colorado  
Tsinghua Univ.

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Weiherer, Tobias  
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Hofmann, Ulrich  

Tech. Univ. München  
AUDI AG  
AUDI AG

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Gruyer, Dominique  
Demmel, Sébastien  
D’Andrea-Novel, Brigitte  
Lambert, Alain  
Rakotonirainy, Andry  

IFSTTAR  
QUT & IFSTTAR  
Mines ParisTech  
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Queensland Univ. of Tech.

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Zhang, Hanxizi  
Wang, Bo  
Gao, Zhifeng  

Beijing Inst. of Tech.  
Beijing Institute of Tech.  
Beijing Inst. of Tech.  
Beijing Inst. of Tech.

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Shen, Truman  

Takata Holdings Inc

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Tech. Univ. of Cluj-Napoca  

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Wills, D. Scott  
Wills, Linda M.  
Georgia Inst. of Tech.  

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Hasegawa, Takaaki  
Saitama Univ.  

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Kakiuchi, Noriaki  
Ozaki, Noriyuki  
Sugawara, Ryoichi  
Univ. of Tokyo  
Univ. of Tokyo  
DENSO Corp.  

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Galan-Moreno, Manuel  
Rubio-Royo, Enrique  
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ULPGC, CICEI  
ULPGC  
ULPGC, DMAT, CICEI  

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Chen, Songhang  
Zhu, Fenghua  
Chinese Acad. of Sciences  
Inst. of Automation, Chinese Acad. of sciences  

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Zhu, Fenghua  
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Tokyo Univ. of Science

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Dauwels, Justin
Nanyang Tech. Univ.
Mitrovic, Nikola
Nanyang Tech. Univ.
Asif, Muhammad Tayyab
Nanyang Tech. Univ.
Oran, Ali
SMART
Jaillet, Patrick
MIT

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Groot, Noortje
Delft Univ. of Tech.
De Schutter, Bart
Delft Univ. of Tech.
Hellendoorn, Hans
Delft Univ. of Tech.

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Univ. of Oklahoma
Havlicek, Joseph
Univ. of Oklahoma
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Oklahoma Department of Transportation:
Barnes, Ronald
Univ. of Oklahoma

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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

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Stenneth, Leon
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Thompson, Kenville
The Graduate Center CUNY
Stone, Waldin
The Graduate Center CUNY
Alowibdi, Jalal
Univ. of Illinois Chicago

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Liu, Yuncai
Shanghai Jiao Tong Univ.
Ye, Zhoumin
Hangzhou Inst. of Service Engineering, Hangzhou Normal University
Wu, Wei
Enjoyor Company
Zhu, Mingzhe
Hangzhou Inst. of Service Engineering, Hangzhou Normal University

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Kong, Qing-Jie Shanghai Jiao Tong Univ.
Liu, Yuncai Shanghai Jiao Tong Univ.
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Elangovan, Arun Kumar RideCell, LLC
Watkins, Kari E. Georgia Inst. of Tech.
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S Canepa, Edward Esteban King Abdullah Univ. of Science and Tech.
Claudel, Christian King Abdullah Univ. of Science and Tech.

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Kamalanathsharma, Raj Kishore Virginia Tech. Transportation Inst.
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Hu, Ta-Yin National Cheng Kung Univ.
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Hashimoto, Naohisa National Inst. of AIST
Kato, Shin National Inst. of AIST
Tsugawa, Sadayuki Meijo Univ.
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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
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Mohsenian-Rad, Hamed Univ. of California at Riverside
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Eggert, Julian  
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Honda Res. Inst. Europe GmbH

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Cuervo Pinilla, Andres C.  
Univ. del Norte


Marinescu, Dan  
Čurn, Jan  
Bouroche, Mélanie  
Cahill, Vinny  
Trinity Coll. Dublin

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Nunes, Urbano  
Parafita, Ricardo Jorge Pedrosa  
Inst. de Sistemas e Robotica - Univ. de Coimbra


Hyncica, Ondrej  
Honzik, Petr  
Kucera, Pavel  
Pavlata, Karel  
Brno Univ. of Tech.


Lu, Henghui  
Zhang, Sheng  
Tsinghua Univ.
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<td>Price, Robert</td>
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<td>Toyota Motor Europe</td>
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**Simulation and Modeling 6 (Regular Session)**

#### 14:00-14:18 TB5.1

**Unsupervised Learning Based Performance Analysis of N-Support Vector Regression for Speed Prediction of a Large Road Network**, 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


- d’Acierno, Antonio  
  ISA - CNR
- Leone, Marco  
  Univ. of Salerno
- Saggese, Alessia  
  Univ. of Salerno
- Vento, Mario  
  Univ. of Salerno

#### 14:36-14:54 TB5.3

**Multi-Objective Traffic Light Control System Based on Bayesian Probability Interpretation**, 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


- 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.

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**Route Guidance and Demand Analysis Using Taxi Data (Regular Session)**

#### 14:00-14:18 TB6.1


- Aslam, Javed  
  Northeastern Univ.
- Lim, Sejoon  
  MIT
- Rus, Daniela  
  MIT

#### 14:18-14:36 TB6.2

**A Predictive Model for the Passenger Demand on a Taxi Network**, pp. 1014-1019.

- Moreira-Matias, Luis  
  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

**Exploring the Relationship between Mobile Phone Call Intensity and Taxi Volume in Urban Area**, pp. 1020-1025.
### TB6.4

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

- Veloso, Marco
- Phithakkitnukoon, Santi
- Bento, Carlos

Univ. of Coimbra
Culture Lab. School of Computing Science, Newcastle University
Univ. of Coimbra

14:54-15:12

### TB7

#### Lane Level Traffic Management (Regular Session)

**King Salmon**

**TB7.1**

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

- Soekroella, Aroen
- Hegyi, Andreas
- Hoogendoorn, Serge
- van Kooten, Jaap

TU Delft
Delft Univ. of Tech.
Delft Univ. of Tech.
Arane

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**TB7.2**

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

- Wu, Guoyuan
- Boriboonsomsin, Kanok
- Zhang, Liping
- Barth, Matthew

Univ. of California-Riverside
Univ. of California-Riverside
Univ. of California, Berkeley
Univ. of California-Riverside

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**TB7.3**


- Hou, Yi
- Edara, Praveen
- Sun, Carlos

Univ. of Missouri-Columbia
Univ. of Missouri-Columbia
Univ. of Missouri-Columbia

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**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
- Arruda, Lúcia Valéria Ramos

Univ. Tecnológica Federal do Paraná
Univ. Tecnológica Federal do Paraná (UTFPR)

### TB8

#### Electric and Hybrid Vehicles (Regular Session)

**Lupine**

**TB8.1**


- Jang, Young Jae
- Ko, Young Dae

Korea Advanced Inst. of Science and Tech.
Korea Advanced Inst. of Science and Tech.

14:00-14:18

**TB8.2**


- Khayyer, Pardis
- Wollaeger, James
- Onori, Simona
- Marano, Vincenzo
- Ozguner, Umit
- Rizzoni, Giorgio

The Ohio State Univ.
The Ohio State Univ.
The Ohio State Univ.
The Ohio State Univ.
The Ohio State Univ.
The Ohio State Univ.

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| 14:54-15:12     | TB8.4   | Deviations in Markov Chain Modeled Electric Vehicle Charging Patterns from Real World Data, pp. 1072-1077. | Hill, Graeme  
                 Blythe, Phil  
                 Beijing Inst. of Tech.  
                 NEWCASTLE Univ.         |
                 Wanielik, Gerd  
                 Chemnitz Univ. of Tech.  
                 Chemnitz Univ. of Tech. |

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                 Inst. of Psychology, Chinese Acad. of Sciences  
                 Inst. of Psychology, Chinese Acad. of Sciences |
| 16:18-16:36     | TC1.2   | A Context Aware Intelligent Speed Adaptation System: A Field Operational Test, pp. 1091-1096. | Hoogendoorn, Raymond G.  
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                 van Arem, Bart  
                 Delft Univ. of Tech.  
                 Delft Univ. of Tech.  
                 Delft Univ. of Tech. |
| 16:36-16:54     | TC1.3   | Game Theory Algorithm for Intersection-Based Cooperative Adaptive Cruise Control (CACC) Systems, pp. 1097-1102. | Zohdy, Ismail  
                 Rakha, Hesham A.  
                 Virginia Tech.  
                 Virginia Tech.  
                 Virginia Tech.  |
| 16:54-17:12     | TC1.4   | A New Braking and Warning Scoring System for Vehicle Forward Collision Imminent Braking Systems, pp. 1103-1108. | Chien, Stanley  
                 Li, Lingxi  
                 Chen, Yaobin  
                 Indiana Univ. Univ. Indianapolis  
                 Indiana Univ. Univ. Indianapolis  
                 Purdue School of Engineering and Tech. IUPUI |
| 17:12-17:30     | TC1.5   | Intersection Management for Autonomous Vehicles Using Icacc, pp. 1109-1114. | Zohdy, Ismail  
                 Kamalanathsharma, Raj Kishore  
                 Rakha, Hesham A.  
                 Virginia Tech.  
                 Virginia Tech.  
                 Virginia Tech.  |

**TC2**

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| 16:00-16:18     | TC2.1   | Speed Reduction Impact of Dynamic Speed Feedback Signs on High Crash Curves, pp. 1115-1120. | Hallmark, Shauna  
                 Hawkins, Neal  
                 Smadi, Omar  
                 Iowa State Univ. USA  
                 Iowa State Univ.  
                 Iowa State Univ. |
| 16:18-16:36     | TC2.2   | Computation of Driver Safety Rating Using In-Vehicle Data Recorders: Case Study of Bangkok Public Transportation, pp. 1121-1126. | Saiprasert, Charlemmpol  
                 Pattara-atikom, Wasan  
                 National Electronics and Computer Tech. Center  
                 National Electronics and Computer Tech. Center |
| 16:36-16:54     | TC2.3   | GIS-Based Road Safety Evaluation Model for Cyclist in Campus of Higher Education Mega Center, pp. 1127-1131. | |
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Rail Extraction Technique Using Gradient Information and a Priori Shape Model, pp. 1132-1136.
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Stanciulescu, Bogdan
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Tran, Cuong
Doshi, Anup
Trivedi, Mohan M.

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Organizer: Wei, Heng  Univ. of Cincinnati
Organizer: Li, Zhixia  Univ. of Wisconsin-Madison
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Li, Zhixia  Univ. of Wisconsin-Madison
Yang, Qingyan
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
Molineros, Jose  HRL Lab. LLC
Owechko, Yuri  HRL Lab. LLC
Levi, Dan  General Motors, Advanced Tech. Center, Israel
Zhang, Wende  General Motors, Res. and Development
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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
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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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Multi-Object Tracking at Intersections Using the Cardinalized Probability Hypothesis Density Filter, pp. 1172-1177.

Reuter, Stephan  
Meissner, Daniel  
Dietmayer, Klaus  

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


Goldhammer, Michael  
Strigel, Elias  
Meissner, Daniel  
Brunsmann, Ulrich  
Doll, Konrad  
Dietmayer, Klaus  

Univ. of Applied Sciences Aschaffenburg  
Univ. of Ulm  
Univ. of Ulm  
Univ. of Applied Sciences Aschaffenburg  
Univ. of Applied Sciences Aschaffenburg  
Univ. of Ulm


Kaadan, Asaad  
Refai, Hazem  

Univ. of Oklahoma  
Univ. of Oklahoma


Zhu, Quanwen  
Mao, Qingzhou  
Chen, Long  
Li, Ming  
Li, Qingquan  

Wuhan Univ.  
Wuhan Univ.  
Wuhan Univ.  
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Wuhan Univ.


Thielen, Daniel  
Lorenz, Tobias  
Hannibal, Marco  
Köster, Frank  
Plättner, Jens  

German Aerospace Center (DLR)  
German Aerospace Center (DLR)  
German Aerospace Center (DLR)  
German Aerospace Center (DLR)  
German Aerospace Center (DLR)

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16:00-16:18 TC5.1

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

Nikias, Vasileios  
Vlahogianni, Eleni  
Lee, Tzu-Chang  
Gollas, John  

National Tech. Univ. of Athens  
School of Civil Engineering, National Tech. Athe  
National Cheng Kung Univ.  
National Tech. Univ. of Athens

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

He, Shuyan  
Guan, Wei  

Beijing Jiaotong Univ.  
Beijing Jiaotong Univ. Beijing P.R.C


Fadaei Oshyani, Masoud  
Sundberg, Marcus  
Karlstrom, Anders  

KTH Royal Inst. of Tech.  
KTH Royal Inst. of Tech.  
KTH Royal Inst. of Tech.


Angkititrakul, Pongtep  
Miyajima, Chiyomi  
Takeda, Kazuya  

Nagoya Univ.  
Nagoya Univ.  
Nagoya Univ.
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**Predicting Arrival Times of Buses Using Real-Time GPS Measurements**, pp. 1227-1232.

Sinn, Mathieu  
Yoon, Ji Won  
Calabrese, Francesco  
Bouillet, Eric  

IBM Res.

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Schreiter, Thomas  
Pel, Adam  
van Lint, Hans  
Hoogendoorn, Serge  

Delft Univ. of Tech.

### TC6.2

**Freight Origin-Destination Estimation Based on Multiple Data Sources**, pp. 1239-1244.

Ma, Yinyi  
Van Zuylen, H.J.  
Kuik, Roelof  

Erasmus Univ.  
Delft Univ. of Tech.  
Erasmus Univ. Rotterdam

### TC6.3

**GPS Tracking of Freight Vehicles to Identify and Classify Bottlenecks**, pp. 1245-1249.

Dailey, Daniel J.  
McCormack, Ed  
Zhao, Wenjuan  

Univ. of Washington  
Univ. of Washington  
Washington State Department of Transportation

### TC6.4

**The Multi-Modal Evacuation System (MES) for Baltimore Metropolitan Region**, pp. 1250-1257.

Zhang, Xin  
Chang, Gang-Len  

Univ. of Maryland  
UMD

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**Emergency Operation and Management (Regular Session)**

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Duan, Pengfei  
Xiong, Shengwu  
Jiang, Hongxin  

Wuhan Univ. of Tech.  
Wuhan Univ. of Tech.  
Wuhan Univ. of Tech.

### TC7.2

**Sensitivity Analysis of Driver Behavior under Emergency Conditions (I)**, pp. 1263-1268.

Prionisti, Elena  
Antoniou, Constantinos  

National Tech. Univ. of Athens  
National Tech. Univ. of Athens

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**Emergency Traffic Evacuation Control Based on the Orthogonal Experimental Design Method (I)**, pp. 1269-1273.

Lv, Yisheng  
Zhu, Fenghua  
Miao, Qinghai  
Ye, Peijun  
Chen, Songhang  

Chinese Acad. of Sciences  
Inst. of Automation, Chinese Acad. of Sciences  
Graduate Univ. Chinese Acad. of Sciences  
Inst. of Automation, Chinese Acad. of Sciences  
Chinese Acad. of Sciences

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Ozguven, Eren Erman  
Ozbay, Kaan  

Rutgers Univ.  
Rutgers, The State Univ. of NJ
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Come, Etienne  
Oukhellou, Latifa  
Aknin, Patrice  
Fonlladosa, Charles-Eric  
Prendergast, Kevin  

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Do, Quoc Huy  
Sakai, Ryohei  
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| 09:18-09:36   | WA3.2     | Multi-Sensor Localization – Visual Odometry As a Low Cost Proprioceptive Sensor | Bak, Adrien  
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| 09:36-09:54   | WA3.3     | Continually Improving Large Scale Long Term Visual Navigation of a Vehicle in Dynamic Urban Environments | Churchill, Winston  
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| 09:54-10:12   | WA3.4     | A Sequential Test for Autonomous Localisation of Map Errors for Driving Assistance Systems | Zinoune, Clément  
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Zelek, John  
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Zhou, Kai
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Vincze, Markus
Liu, Fuqiang
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ACIN, TU Vienna
ACIN, TU Vienna
Tongji Univ.

Research on Compressed EKF Based SLAM Algorithm for Unmanned Underwater Vehicle, pp. 1402-1406.

Wang, Hongjian
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  Forster, Carlos H. Q.  Inst. Tecnologico de Aeronautica

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- **Liu, Kai** Nanyang Tech. Univ.
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- **Sekimoto, Yoshihide** Univ. of Tokyo
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- **Chaudet, Claude** Telecom Paris Tech
- **Demeure, Isabelle** Télécom Paris Tech

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- **Hu, Zhengqing** Nanyang Pol.
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- **Rhode, Stephan** Karlsruhe Inst. of Tech.
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- **Rezaee, Kasra** Univ. of Toronto
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- Li, Zhiheng  Tsinghua Univ.
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- Angius, Fabio  Univ. of California
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- Xiao, Jianli  Shanghai Jiao Tong Univ.
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- Rioux, Thomas W.  Rioux Engineering & Harmonia Holdings Group
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- Come, Etienne  UPE, IFSTTAR, GRETTIA
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- Piff, Markus  Austrian Inst. of Tech. (AIT)
- Brändle, Norbert  Austrian Inst. of Tech.
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- Reinthaler, Martin  Austrian Inst. of Tech.
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Fitzgerald, Emma Univ. of Sydney
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Chen, Cheng Inst. of Automation, Chinese Acad. of Sciences
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