

# **2015 14th International Conference on ITS Telecommunications (ITST 2015)**

**Copenhagen, Denmark  
2 – 4 December 2015**



**IEEE Catalog Number: CFP1528A-POD  
ISBN: 978-1-4673-9383-6**

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IEEE Catalog Number:	CFP1528A-POD
ISBN (Print-On-Demand):	978-1-4673-9383-6
ISBN (Online):	978-1-4673-9382-9

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## **Wednesday, December 2**

**Wednesday, December 2, 17:00 - 19:00**

**Conference registration**

Lobby, Radisson Blu Falconer Hotel & Conference Centre

## **Thursday, December 3**

**Wednesday, December 2, 19:00 - 22:00**

**Welcome reception**

Belis Kitchen, Falkoner Allé 10, 2000 Frederiksberg

**Thursday, December 3, 08:00 - 09:00**

**Breakfast**

**Thursday, December 3, 09:00 - 10:00**

**Keynote - Reliable Time-Critical Communications Supporting Cooperative Driving**

Magnus Jonsson, Halmstad University, SE

**Thursday, December 3, 10:00 - 10:20**

**Coffee break**

**Thursday, December 3, 10:20 - 12:00**

**S1: Vehicular Networking I [ROOM 202]**

Chair: Alexey Vinel (Halmstad University, Sweden)

**The Potential of Collective Perception in Vehicular Ad-hoc Networks**

Hendrik-Jörn Günther (Volkswagen Group Research & Technische Universität Braunschweig, Germany); Oliver Trauer (C4C Engineering GmbH, Germany); Lars C Wolf (Technische Universität Braunschweig, Germany)

**Hybrid Environment-based Channel Model for Vehicular Communications**

Jose Leon Calvo (RWTH Aachen University, Germany); Florian Schröder (SmartWireless GmbH & Co. KG, Germany); Rudolf Mathar (RWTH Aachen University, Germany)

## **An Efficient Cooperative Transmission Scheme for Vehicular Communications**

Cong-Hoang Diem and Takeo Fujii (The University of Electro-Communications, Japan)

**Thursday, December 3, 12:00 - 13:00**

**Lunch**

**Thursday, December 3, 13:00 - 14:30**

**S2: Vehicular Networking II [ROOM 202]**

Chair: Mohamed Kassab (HANA Lab, ENSI & University of Monastir, Tunisia)

### **Context Awareness and Priority Control for ITS based on Automatic Speech Recognition**

Sakriani Sakti (NAIST, Japan); Oyunchimeg Shagdar and Fawzi Nashashibi (INRIA, France); Satoshi Nakamura (Nara Institute of Science and Technology, Japan)

### **On the Importance of Real Data for Microscopic Urban Vehicular Mobility Trace**

Marie-Ange Lebre (INSA Lyon & Valeo Company, France); Frederic Le Mouel (INRIA / INSA Lyon, France); Eric Ménard (Valeo Company, France)

### **IoT approach applied in the context of ITS: Monitoring Highways through Instant Messaging**

Luis Felipe Herrera-Quintero (Universidad Piloto de Colombia, Colombia)

**Thursday, December 3, 14:30 - 14:45**

**Coffee break**

**Thursday, December 3, 14:45 - 17:00**

**S3: ITS 1 [ROOM 202]**

Chair: Michele Fiorini (Selex ES & IET Italy, Italy)

### **Extended Electronic Horizon for Automated Driving**

Yuki Horita (Hitachi Ltd., Japan); Ramon Schwartz (Hitachi Europe, Ltd., France)

### **Automatic Fault Detection and Execution Monitoring in Cooperative Maneuvering**

Reza Balaghiassefi and Michael Düring (Volkswagen AG, Germany); Kai Franke (Volkswagen AG & Group Research, Germany); Armin Zimmermann (Ilmenau University of Technology & System and Software Engineering, Germany)

### **Building Representative Velocity Profiles Using FastDTW and Spectral Clustering**

Jürgen Lohrer and Markus Lienkamp (Technische Universität München, Germany)

### **Agent Based Simulation Applied to the Design of Control Systems for Emergency Vehicles Access**

Monica Patrascu, Andreea Ion and Vlad Constantinescu (University Politehnica of Bucharest, Romania)

## **Friday, December 4**

**Thursday, December 3, 19:00 - 22:00**

**Conference dinner**

Restaurant, Radisson Blu Falconer Hotel & Conference Centre

**Friday, December 4, 08:00 - 09:00**

**Breakfast**

**Friday, December 4, 09:00 - 10:00**

**Invited Talk 1 - Providing Connectivity for Mobility Services: Now and Future 5G**

Tatiana Madsen and Mads Lauridsen, Aalborg University, DK

**Friday, December 4, 10:00 - 10:20**

**Coffee break**

**Friday, December 4, 10:20 - 12:00**

**S4: Wireless Communications [ROOM 202]**

Chair: Jose Leon Calvo (RWTH Aachen University, Germany)

**On the Coverage of LPWANs: Range Evaluation and Channel Attenuation Model for LoRa Technology**

Juha Petäjälä (University of Oulu, Finland); Marko Pettissalo (Nokia, Finland); Konstantin Mikhaylov (University of Oulu, Finland); Antti Roivainen (Centre for Wireless Communications, University of Oulu, Finland); Tuomo Hänninen (University of Oulu, Finland)

**A Cluster Based Scheme for Interference Mitigation in Mobile Macrocell-Femtocell Networks**

Tara Ali Yahya (University of Kurdistan-Hawler, France); Reben Kurda (Koya University, Iraq); Derya Yiltas-Kaplan and Pınar Kırıcı (Istanbul University, Turkey)

**Improving Performance of Positioning in DS/SS-IVC based on Location Oriented PN Code Allocation**

Reiki Kusakari and Akira Nakamura (Tokyo University of Science, Japan); Kohei Ohno (Meiji University, Japan); Makoto Itami (Tokyo University of Science, Japan)

**Friday, December 4, 12:00 - 13:00**

**Lunch**

**Friday, December 4, 13:00 - 14:30**

**S5: ITS II [ROOM 202]**

Chair: Pinar Kirci (Istanbul University, Turkey)

**Improving GPS-based Road Network Constructions in a Post-Processing Step of Global Optimization**

Oliver Roeth and Daniel Zaum (Robert Bosch GmbH, Germany); Claus Brenner (Leibniz University of Hannover, Germany)

**Integration of PLMN and Satellite Networks for Train Control and Traffic Management via MPTCP**

Alessandro Neri (University of ROMA TRE, Italy); Agostino Ruggeri (Radiolabs, Italy); Yiwei Liu (Università degli Studi Roma Tre, Italy)

**Ship behavior recognition based on infrared video analysis in a maritime environment**

Yang Xuefeng, Zhang Yingjun and Liu Wen (Dalian Maritime University, P.R. China); Zhu Feixiang (DaLian Maritime University, P.R. China)

**Friday, December 4, 14:30 - 14:45**

**Coffee break**

**Friday, December 4, 14:45 - 15:45**

**Invited Talk 2 - From Titanic to Costa Concordia, the needs of ITS and Telecommunications in Maritime Domain**

Michele Fiorini, IET, IT

**Friday, December 4, 15:45 - 16:45**

**Invited Talk 3 - Communication Systems for ITS: Performance Evaluation Based on Simulation**

Mohamed Kassab, HANA lab, TN / IFSTTAR, FR and Marion Berbineau, IFSTTAR, FR

**Friday, December 4, 16:45 - 17:00**

**Conference closing & Best paper award**