

WiVEC 2013 Program

Sunday 2 June

10:30–12:00	Opening and Oral Session 1: Antennas, Wireless Channel and Physical Layer
12:00–13:45	Lunch
13:45–15:00	Keynote: Hannes Hartenstein
15:00–17:00	WiVeC Posters & Demos session (incl coffee break)
18:00–20:00	VTC-WiVeC Welcome Reception

Monday 3 June

8:00–10:00	VTC Opening Plenary
10:00–10:30	Coffee Break
10:30–12:00	Oral Session 2: Network and MAC Layer
12:00–13:30	Lunch
13:30–15:00	Oral Session 3: Security and Applications
15:00–15:30	Coffee Break
15:30–16:30	Keynote: Ralf Guido Herrtwich
16:30–17:30	WiVeC Panel and Closing

Oral Session 1: Antennas, Wireless Channel and Physical Layer

Chair: Elisabeth Uhlemann, Halmstad University, Sweden

1. Large MISO Beamforming For High Speed Vehicles Using Separate Receive & Training Antennas, Dinh Thuy Phan Huy, Orange; Maryline Helard, INSA (rennes)
2. Leveraging Diverse Propagation and Context for Multi-Modal Vehicular Applications, Pengfei Cui, Hui Liu, Jialin He, Southern Methodist University; Onur Altintas, TOYOTA InfoTechnology Center; Rama Vuyyuru, Toyota InfoTechnology Center USA; Dinesh Rajan, Southern Methodist University; Joseph Camp, SMU
3. Measurements Based Channel Characterization for Vehicle-to-Vehicle Communications at Merging Lanes on Highway, Taimoor Abbas, Lund University; Laura Bernadó, ftw. Forschungszentrum Telekommunikation Wien; Andreas Thiel, Delphi Delco Electronics Europe; Christoph F. Mecklenbräuker, Technische Universität Wien; Fredrik Tufvesson, Lund University
4. Real-World Measurements-based Evaluation of IEEE 802.11p System Performance, Veronika Shivaldova, Christoph Mecklenbräuker, Vienna University of Technology

Oral Session 2: Network and MAC Layer

Chair: Andreas Festag, NEC Laboratories Europe, Germany

1. Achieving Weighted Fairness in Message Rate-Based Congestion Control for DSRC Systems, Gaurav Bansal, Toyota Info Technology Center, USA; John Kenney, Toyota ITC
2. An Infrastructure Enhanced Geographic Routing Protocol for Urban Vehicular Environments, Aisling O'Driscoll, Dirk Pesch, Cork Institute of Technology

3. Impact of Neighbor Awareness at the MAC Layer in a Vehicular Ad-hoc NETWORK (VANET), Marthinus Booysen, Stellenbosch University; Sherali Zeadally, University of the District of Columbia; Gert-Jan van Rooyen, Stellenbosch University
4. MAC Contention Distributions for Efficient Geo-routing in Vehicular Networks, Carolina Garcia-Costa, Universidad Politecnica de Cartagena; Esteban Egea Lopez, Joan García Haro, Universidad Politécnica de Cartagena

Oral Session 3: Security and Applications

Chair: Ilja Radusch, Fraunhofer FOKUS, Germany

1. Relevance Estimation of Cooperative Awareness Messages in VANETs, Jakob Breu, Daimler AG; Michael Menth, University of Tübingen
2. A Trust Model for Vehicular Network-Based Incident Reports, Cong Liao, Jian Chang, University of Pennsylvania; Krishna K. Venkatasubramanian, Worcester Polytechnic Institute; Insup Lee, University of Pennsylvania
3. Automatic Generation of Intersection Topologies using Numerous GPS Traces, Andreas von Eichhorn, BMW Group Forschung und Technik; Peter Zahn, BMW Group Research and Technology; Dieter Schramm, University of Duisburg-Essen
4. High-Coverage Internet Radio, Thorsten Hehn, Urs Thürmann, Volkswagen AG; Benjamin Jakob Zimmermann, Autovision GmbH; Lars Wischhof, Munich University of Applied Sciences; Frank Oldewurtel, Audi AG

WiVeC 2013 Posters

Chair: Javier Gozalvez, University Miguel Hernandez of Elche, Spain

1. A Robust System for Visible Light Communication, Alin Cailean, Barthélemy Cagneau, Luc Chassagne, Suat Topsu, Yasser Alayli, Université de Versailles; Mihai Dimian, Stefan cel Mare University
2. An approach for measuring V2X infrastructure communication coverage and Signal Quality, Tobias Frankiewicz, Meike Berghaus, Frank Köster, German Aerospace Center (DLR)
3. Channel Information Estimation for Error Correcting Code in Road-to-Vehicle Visible Light Communication Systems, Hiraku Okada, Nagoya University; Shinnosuke Misawa, Saitama University; Takaya Yamazato, Toshiaki FUJII, Nagoya University; Tomohiro Yendo, Nagaoka University of Technology
4. Combining Adaptive Junction Control with Simultaneous Green-Light-Optimal-Speed-Advisory, Jakob Erdmann, Deutsches Zentrum für Luft- und Raumfahrt e.V.
5. Cooperative Glare Reduction Using V2X Radio Technology, Torsten Steiner, Karsten Roscher, Josef Jiru, Fraunhofer ESK
6. Design and Performance Analysis of an IEEE 802.15.4 V2P Pedestrian Protection System, Andreas Lewandowski, Stefan Boecker, Volker Köster, Dortmund University of Technology; Christian Wietfeld, TU Dortmund University
7. Efficient Packet Relay Scheme with Payload Combining for ITS V2V Communications, Le Tien Trien, Hideki Sugawara, Huiting Cheng, The University of Electro-Communications; Yasushi Yamao, University of Electro-Communications (UEC Tokyo), Japan

8. Improving Rescue Information Using C2C and C2I Communication, Wolf A. Heidrich, Dominique Seydel, Christian Prehofer, Fraunhofer Institute for Communication Systems ESK
9. Interpixel Interference Cancellation Method for Road-to-Vehicle Visible Light Communication, Tatsuya Kasashima, Takaya Yamazato, Hiraku Okada, Toshiaki FUJII, Nagoya University; Tomohiro Yendo, Nagaoka University of Technology; Shintaro ARAI, Kagawa National College of Technology
10. Radio Hardware In-the-Loop Emulation for Testing Vehicular Communication Systems, Norman Franchi, University of Erlangen-Nuremberg; Georg Fischer, Robert Weigel, University Erlangen-Nuremberg
11. Vehicle2X Data Preprocessing for Safety Functions, Richard Scherping, Ulrich Stählin, Continental; Torsten Bertram, Technische Universität Dortmund
12. Where to Get a Charged EV Battery: A Route to Follow as if It Were Your Own Advice, Francesco Malandrino, Claudio Casetti, Carla Fabiana Chiasserini, Politecnico di Torino; Massimo Reineri, Istituto Superiore Mario Boella (ISMB)

WiVeC 2013 Demos

Chair: Oliver Sawade, Fraunhofer FOKUS, Germany

1. Real-time Audio Transmission in Mobile Adhoc Networks, Florian Pregizer, Ulm University; Hannes Klee, Ulm University
2. Route-related traffic signal information on Smartphones using I2V-Communication, Felix Rudolph, University of Kassel; Robert Hoyer, University of Kassel
3. Secure Communication in Vehicular Networks: PRESERVE VSS Kit 1 Demo, Marcello Lagana, KTH - Kungliga Tekniska högskolan; Michael Feiri, University of Twente; Michel Sall, Trialog; Mirko Lange, Escrypt; Andrea Tomatis, Hitachi Europe S.A.S; Panos Papadimitratos, KTH; Jonathan Petit, University of Twente