WiVeC Program

Sunday, 14 September 2014 8:30-10:00 Seymour

11W: Wireless & Antenna

1 Antenna Selection Algorithm with Improved Channel Predictor for Vehicular Environment  15
Mona Shemshaki, Christoph Mecklenbräuker, Institute of Telecommunications, Austria

2 Finite-State Markov Channel Modeling for Vehicle-to-Infrastructure Communications  39
Siyu Lin, Yan Li, Yuanxuan Li, Beijing Jiaotong University; Ai Bo, Tsinghua University; Zhangdui Zhong, Beijing Jiaotong University

3 Improved Near Field Focusing of Antenna Arrays with Novel Weighting Coefficients  55
Shun-Ping Chen, Darmstadt University of Applied Sciences

4 SDR-proved Adaptive OFDM Guard Interval Scheme for Rapidly Varying Time-Dispersive Vehicular Broadcast Channels  90
Norman Franchi, Matej Kloc, Robert Weigel, University Erlangen-Nuremberg

Sunday, 14 September 2014 10:30-12:00 Seymour

12W: Radio & Networks I

1 A Ray Tracing Algorithm for Intelligent Transport Systems in Tunnels  1
Mingming Gan, Zhinan Xu, The Telecommunications Research Center Vienna (FTW); Veronika Shivaldova, Vienna University of Technology; Alexander Paier, Kapsch TrafficCom; Fredrik Tufvesson, Lund University; Thomas Zemen, Forschungszentrum Telekommunikation Wien ftw.

2 Enhancing the Field of View Limitation of Visible Light Communication-based Platoon  
Mohammad Abualhoul, Mohamed Marouf, Oyunchimeg Shagdar, Fawzi Nashashibi, INRIA

3 Relaying for IEEE 802.11p at Road Intersection Using a Vehicular Non-Stationary Channel Model  79
Zhinan Xu, Laura Bernado, Mingming Gan, Markus Hofer, The Telecommunications Research Center Vienna (FTW); Taimoor Abbas, Lund University; Veronika Shivaldova, Vienna University of Technology; Kim Mahler, Fraunhofer Heinrich Hertz Institute; Dieter Smely, Kapsch TrafficCom; Thomas Zemen, Forschungszentrum Telekommunikation Wien ftw.

4 Signal-to-Noise Ratio Modeling for Vehicle-to-Infrastructure Communications  95
Veronika Shivaldova, Andreas Winkelbauer, Christoph Mecklenbräuker, Vienna University of Technology

Sunday, 14 September 2014 15:30-17:00 Seymour

13W: Radio & Networks II

1 Impact of a Truck as an Obstacle on Vehicle-to-Vehicle Communications in Rural and Highway Scenarios  49
Dimitrios Vlastaras, Taimoor Abbas, Lund University; Mikael Nilsson, Volvo Car Corporation; Russ Whiton, Magnus Olbäck, Volvo Group Trucks Technology; Fredrik Tufvesson, Lund University

2 Infrastructure-to-Vehicle Throughput in TVWS for Urban and Rural Environments  59
Nor Fadzilah Abdullah, Angelos Goulianos, Denys Berkovskyy, Di Kong, Evangelos Mellios, Angela Doufexi, Andrew Nix, University of Bristol

3 Multiplicative Superposition Signaling Based Detection schemes for Heterogeneous-Speed Users  69
Caihong Yu, Li Hao, Southwest Jiaotong University

4 Spectrum Sensing with Energy Detection in Cognitive Vehicular Ad hoc Networks  100
Xiaomin Qian, Li Hao, Southwest Jiaotong University, China

Monday, 15 September 2014 11:00-12:30 Cypress 1

1A: WiVeC Network & MAC

1 Adaptive Content Control for Communication amongst Cooperative Automated Vehicles  8
Mohammad Fanaei, Amin Tahmashi-Sarvestani, Yaser P. Fallah, West Virginia University; Gaurav Bansal, Toyota InfoTechnology Center; Matthew Valenti, West Virginia University; John Kenney, Toyota ITC

2 Comparing LIMERIC and DCC approaches for VANET Channel Congestion Control  20
Gaurav Bansal, Toyota Info Technology Center; Bin Cheng, Ali Rostami, Rutgers University; Katrin Sjoberg, Volvo Groups Trucks Technology; John Kenney, Toyota InfoTechnology Center; Marco Gruteser, WINLAB, Rutgers University

3 MAX-MIN based Buffer Allocation for VANETs  64
Luis Urquiza-Aguir, Andrés Vázquez-Rodas, Universitat Politècnica de Catalunya; Carolina Tripp-Barba, Autonomic University of Sinaloa; Mónica Aguilar Igartua, Luis J. de la Cruz Llopis, Emilio Sanvicente Gargallo, Universitat Politècnica de Catalunya

4 Random Transmit Jitter Against Correlated Packet Collisions in Vehicular Safety Communications  74
Bernhard Kloiber, German Aerospace Center (DLR); Jérôme Härri, EURECOM; Fabian de Ponte Müller, Stephan Sand, German Aerospace Center (DLR)
Monday, 15 September 2014 14:00-15:30 Cypress 1

2A: WiVeC Applications & Security

1 Cooperative Localization based on Topology Matching 27
Seungtak Choi, Woosol Hur, Seung-Woo Seo, Seoul National University

2 Frame-based Mobility Estimation via Compressive Sensing in Delay-Tolerant Vehicular Networks 44
Waleed Alasmary, Shahrokh Valaee, Samah El-Tantawy, Baher Abdulhai, University of Toronto

3 Revisiting Attacker Model for Smart Vehicles 85
Jonathan Petit, Michael Feiri, University of Twente; Frank Kargl, University of Ulm

4 Wireless sensor network-assisted, autonomous mapping with information-theoretic utility 110
Steffen Beyme, Cyril Leung, The University of British Columbia

Monday, 15 September 2014 16:00-17:30 Stanley Park Ballroom

3W: WiVeC Demos

1 A V2X Communication System and Its Performance Evaluation Test Bed 6
Xuting Duan, Yue Yang, Daxin Tian, Yunpeng Wang, Tao Li, Beihang University

2 Demonstration of Multi-Channel Medium Access Control Protocol in Vehicular Power Line Communication (VPLC) using OMNeT++ 32
Zhengguo Sheng, University of British Columbia; Morgan Roff, Queen’s University; Roberto P. Antonioli, Federal University of Ceara, Brazil; Victor C. M. Leung, The University of British Columbia

3 Towards Zero on-site testing: Advanced Traffic Management & Control Systems simulation framework including communication KPIs and response to failure events 105
Marina Aguado, Christian Pinedo, Igor Lopez, Eduardo Jacob, University of The Basque Country; Carlos de las Muñecas, Ines Ugalde, Lara Rodríguez, University of the Basque Country (UPV/EHU)

4 V2X Demonstration 107
Rekha Singoria, Escrypt; Joseph Peruski, Lars Wolleschensky, ESCRYPT Inc.