****

**WoWMoM 2015
14-17 June, Boston, USA**

**Sponsored by IEEE Computer Society, Missouri University Of Science and Technology, and IEEE Technical Committee on Computer Communications (TCCC)**

[**** ****](http://csr.bu.edu/wowmom15/index.html) ****

**WoWMoM 2015 Program**

****

**Keynote 1: Converged Internet and Broadcast Media Delivery**

**Speaker: Michael Luby, Vice President, Technology, Qualcomm, Inc.**

Monday June 15th - 9:00 AM (CGS 129)

**Keynote 2: Smart-Sensing using Smart-Sensors**

**Speaker: Prasant Mohapatra, University of California, Davis.**

Tuesday June 16th - 8:30AM (CGS 129)

**Panel: Privacy and Security in the Internet of Things**

**Panelists:**

Prithwish Basu, Raytheon BBN Technologies, Cambridge MA, USA (Panel Chair)

Fernando Boavida, Universitade de Coimbra, Portugal (Panel Chair)

Thomas Little, Boston University, Boston MA, USA

Partha Pal, Raytheon BBN Technologies, Cambridge MA, USA

Torsten Braun, University of Bern, Switzerland

Jorge Sá Silva, University of Coimbra, Portugal

Tuesday June 16th – 1:00 - 2:30pm (CGS 129)

**Opening Reception**

Sunday June 14th – 6-8pm

The BU Castle: 225 Bay State Rd, Boston, MA 02215

**Dinner Banquet**

Tuesday June 16th – 7-9:30pm

Trustee Ballroom & Lounge: 1 Silber Way, 9th Floor, Boston, MA 02215

**Monday June 15th**

**Registration (8:30 – 9:00am): CGS Lobby**

**Welcome & Keynote 1 (9:00 – 10:00am)**

Room: CGS 129 (Jacob Sleeper Auditorium)

**Coffee break (10:00 – 10:30am): 5th floor alcove**

**SESSION 1A: Video Streaming (10:30am – 12:00pm)**

Chair: Torsten Braun, Room: CGS 505

**Green Video Delivery in LTE-based Heterogeneous Cellular Networks**

*Apostolos Galanopoulos (University of Thessaly, Greece); George Iosifidis (Yale University, USA); Antonios Argyriou (University of Thessaly, Greece); Leandros Tassiulas (Yale University, USA)*

**QoE-aware optimization for video delivery and storage**

*Alisa Devlic (Royal Institute of Technology (KTH), Sweden); Pavan Kumar Kamaraju (University Of Maryland Baltimore County & Royal Institute Of Technology KTH, USA); Pietro Lungaro (Royal Institute of Technology (KTH), Sweden); Zary Segall (KTH Royal Institute of Technology, Sweden); Konrad Tollmar (Royal Institute of Technology (KTH), Sweden)*

**Mobile HTTP‐based streaming using flexible LTE base station control**

*Izhak Rubin (University of California at Los Angeles, USA); Stefania Colonnese (Università La Sapienza di Roma, Italy); Francesca Cuomo (University of Rome Sapienza, Italy); Federica Calanca (UniversIty of Rome Sapienza, Italy); Tommaso Melodia (Northeastern University, USA)*

**SESSION 1B: Mobility & Handover Management (10:30am – 12:00pm)**

Chair: Jérôme Härri, Room: CGS 527

**Network architecture supporting seamless flow mobility between LTE and WiFi networks**

*Dhathri R. Purohith and Aditya Hegde (IIT Madras, India); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)*

**A Hybrid Centralized-Distributed Mobility Management Architecture for Network Mobility**

*Tien-Thinh Nguyen (EURECOM, France); Christian Bonnet (Institut Eurecom, France)*

**Handover triggering in IEEE 802.11 Networks**

*Nicolas Montavont (Institut Mines Telecom / Telecom Bretagne, France); Alberto P Blanc and Renzo Navas (Telecom Bretagne, France); German Castignani (University of Luxembourg / SnT, Luxemburg)*

**Lunch (12:00 – 1:30pm)**

West Campus Dining Hall: 275 Babcock Street, Boston, MA 02215

**SESSION 2A: Dynamic Offloading and Scheduling (1:30 – 3:00pm)**

Chair: Vasilios Siris, Room: CGS 505

**Offload (Only) the Right Jobs: Robust Offloading Using the Markov Decision Processes**

*Esa Hyytiä (Aalto University, Finland); Thrasyvoulos Spyropoulos (EURECOM, France); Joerg Ott (Aalto University, Finland)*

**Towards Optimal Priority and Deadline Driven Scheduling in Dynamic Wireless Environments**

*Viral Patel (State University of New York at Buffalo, USA); Nicholas Mastronarde (University at Buffalo, USA); Michael Medley (Air Force Research Laboratory, USA); John D. Matyjas (Air Force Research Laboratory, Rome, NY, USA)*

**Minimum Delay Scheduling with Multi‐Packet Transmission in Wireless Networks**

*Ali Abbasi and Majid Ghaderi (University of Calgary, Canada)*

**SESSION 2B: Mobility Management in WSNs (1:30 – 3:00pm)**

Chair: Nils Aschenbruck, Room: CGS 527

**Lifetime Optimization with QoS of Sensor Networks with Uncontrollable Mobile Sinks**

*Francesco Restuccia and Sajal K. Das (Missouri University of Science and Technology, USA)*

**Analysis of Deployment and Movement Policies in Wireless Sensor and Robot Networks**

*Andrew Wichmann and Turgay Korkmaz (University of Texas at San Antonio, USA)*

**Water Flow Driven Sensor Networks for Leakage and Contamination Monitoring**

*Amitangshu Pal and Krishna Kant (Temple University, USA)*

**Coffee break (3:00 – 3:30pm): 5th floor alcove**

**SESSION 3A: WSN Data Dissemination and Gathering (3:30 – 5:00pm)**

Chair: Yonghe Liu, Room: CGS 505

**Ripple: High-throughput, Reliable and Energy-efficient Network Flooding in Wireless Sensor Networks**

*Dingwen Yuan (Technische Universität Darmstadt, Germany); Matthias Hollick (Technische Universität Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany)*

**Adaptive Broadcast Suppression for Trickle-Based Protocols**

*Thomas Meyfroyt, Milosh Stolikj and Johan J. Lukkien (Eindhoven University of Technology, The Netherlands)*

**Joint Compressive Data Gathering and Scheduling in Wireless Sensor Networks under the Physical Interference Model**

*Dariush Ebrahimi and Chadi Assi (Concordia University, Canada)*

**SESSION 3B: Content-Centric Architectures for Multimedia (3:30 – 5:00pm)**

Chair: Anand Seetharam, Room: CGS 527

**Content-centric Routing in Wi‐Fi Direct Multi‐group Networks**

*Claudio E. Casetti, Carla‐Fabiana Chiasserini and Luciano Curto Pelle (Politecnico di Torino, Italy); Carolina Del Valle (Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico); Yufeng Duan and Paolo Giaccone (Politecnico di Torino, Italy)*

**EdgeBuffer: Caching and Prefetching Content at the Edge in the MobilityFirst Future Internet Architecture**

*Feixiong Zhang (Rutgers University & WINLAB, USA); Chenren Xu (Carnegie Mellon University & School of Computer Science, USA); Yanyong Zhang (Rutgers University, USA); K. K. Ramakrishnan (University of California, Riverside, USA); Shreyasee Mukherjee (WINLAB, Rutgers University, USA); Roy Yates and Thu Nguyen (Rutgers University, USA)*

**TCCN: Tag-Assisted Content Centric Networking for Internet of Things**

*Yuning Song, Huadong Ma and Liang Liu (Beijing University of Posts and Telecommunications, P.R. China)*

**Work in Progress & Demo Session (5:00 – 6:30pm)**

CGS Hallway

**Tuesday June 16th**

**Keynote 2 (8:30 – 9:30am)**

Room: CGS 129 (Jacob Sleeper Auditorium)

**Coffee break (9:30 – 10:00am): 5th floor alcove**

**SESSION 4A: Dynamic Spectrum Access (10:00 – 11:30am)**

Chair: Luca Bedogni, Room: CGS505

**On 3-Dimensional Spectrum Sharing for TV White and Gray Space Networks**

*Luca Bedogni (University of Bologna & Department of Computer Science, Italy); Angelo Trotta and Marco Di Felice (University of Bologna, Italy)*

**More Flexible Radio Regulations: Investigating Random Spectrum Sampling Techniques for Temporal Occupancy Characterization**

*Sean Rocke (The University of the West Indies, Trinidad and Tobago); Alexander M. Wyglinski (Worcester Polytechnic Institute, USA)*

**Floating Band D2D: Exploring and Exploiting the Potentials of Adaptive D2D‐enabled Networks**

*Arash Asadi (IMDEA Networks Institute & University Carlos III of Madrid, Spain); Vincenzo Mancuso (IMDEA Networks Institute, Spain); Peter Jacko (Lancaster University, United Kingdom)*

**SESSION 4B: Internet of Things (10:00 – 11:30am)**

Chair: Honggang Wang, Room: CGS 527

**Scalability of Machine to Machine systems and the Internet of Things on LTE mobile networks**

*Jill Jermyn (Columbia University, USA); Roger Piqueras Jover, Ilona Murynets and Mikhail Istomin (AT&T Security Research Center, USA); Salvatore J. Stolfo (Columbia University, USA)*

**Ambient Control: A Mobile Framework for Dynamically Remixing the Internet of Things**

*Max Pagel and Darren Carlson (National University of Singapore, Singapore)*

**Prefix Coding of Hierarchical Categories for Publish-Subscribe in Mobile Wireless Environments**

*Bo Xu and Matei Stroila (HERE, USA)*

**Lunch (11:30am – 1:00pm)**

West Campus Dining Hall: 275 Babcock Street, Boston, MA 02215

**Panel: Security & Privacy in the Internet of Things (1:00 – 2:30pm)**

Room: CGS 129 (Jacob Sleeper Auditorium)

**SESSION 5A: Localization and Positioning (3:00 – 4:30pm)**

Chair: Majid Ghaderi, Room: CGS 505

**ReNLoc: An anchor-free localization algorithm for indirect ranging**

*Marios A Fanourakis (University of Geneva, Switzerland); Katarzyna Wac (University of Geneva & Quality of Life group, Switzerland)*

**Cooperation among Smartphones to Improve Indoor Position Information**

*Chen Qiu and Matt Mutka (Michigan State University, USA)*

**A Passive WiFi Source Localization System based on Fine‐grained Power‐based Trilateration**

*Zan Li and Torsten Ingo Braun (University of Bern, Switzerland); Desislava Dimitrova (ETH Zurich, Switzerland)*

**SESSION 5B: Security and Privacy Issues (3:00 – 4:30pm)**

Chair: Pericle Perazzo, Room: CGS 527

**Privacy-preserving Routing in Delay Tolerant Networks based on Bloom Filters**

*Evangelos Papapetrou and Vasileios Bourgos (University of Ioannina, Greece); Artemios G. Voyiatzis (SBA Research, Austria)*

**In the shadows we trust: A secure aggregation tolerant watermark for data streams**

*Arezou Soltani Panah, Ron van Schyndel and Timos Sellis (RMIT University, Australia); Elisa Bertino (Purdue University, USA)*

**The Verifier Bee: a Path Planner for Drone‐Based Secure Location Verification**

*Pericle Perazzo (University of Pisa, Italy); Kanishka Ariyapala (University of Florence, Italy); Mauro Conti (University of Padua, Italy); Gianluca Dini (University of Pisa, Italy)*

**Coffee break (4:30 – 5:00pm): 5th floor alcove**

**SESSION 6: Ph.D. Forum (5:00 – 6:30pm)**

Room: CGS 129 (Jacob Sleeper Auditorium)

#### Comparing Alternative Approaches for Mobile Content Delivery in Information-Centric Networking

*Feixiong Zhang (Rutgers University & WINLAB, USA)*

#### A Cell Biology Inspired Data Packet Forwarding Scheme in Mobile Ad-hoc Networks

*Sulochana Sooriyaarachchi (University of Moratuwa, Sri Lanka)*

#### Towards an Evolvable Cellular Architecture

*Jill Jermyn (Columbia University, USA)*

#### Design of a lightweight Control Plane for supporting MAC and Routing in industrial WSNs

*Dario Fanucchi (University Augsburg, Germany)*
 **An Analytic Evaluation of the Trickle Algorithm: Towards Efficient, Fair, Fast and Reliable Data Dissemination**

*Thomas Meyfroyt (Eindhoven University of Technology, The Netherlands)*

**Dinner Banquet (7:00 – 9:30pm)**

Trustee Ballroom & Lounge: 1 Silber Way, 9th Floor, Boston, MA 02215

**Wednesday June 17th**

**SESSION 7A: Network Analysis and Diagnosis (8:30 – 10:00am)**

Chair: Krishna Kant, Room: CGS 505

**NetTomo: A Tomographic Approach towards Network Diagnosis**

*Paritosh Ramanan, Goutham Kamath and Wen‐Zhan Song (Georgia State University, USA)*

**WiFo: A Diagnostic Tool for IEEE 802.11 MAC**

*Hessan Feghhi (Hamilton Institute, National University of Ireland Maynooth, Ireland); David Malone (Maynooth University, Ireland)*

**On the Map Accuracy required for Network Simulations based on Ray Launching**

*Thomas Hänel, Matthias Schwamborn, Alexander Bothe and Nils Aschenbruck (University of Osnabrück, Germany)*

**SESSION 7B: Opportunistic Networks and Prediction Mechanisms (8:30 – 10:00am)**

Chair: Francesca Cuomo, Room: CGS 527

**Social Cognitive Heuristics for Adaptive Data Dissemination in Opportunistic Networks**

*Matteo Mordacchini (IIT, CNR, Pisa, Italy); Andrea Passarella and Marco Conti (IIT‐CNR, Italy)*

**HiPCV: A History Based Learning Model for Predicting Contact Volume in Opportunistic Networks**

*Mehrab Shahriar (University of Texas at Arlington, USA); Yonghe Liu (The University of Texas at Arlington, USA); Sajal K. Das (Missouri University of Science and Technology, USA)*

**Mobile Network Resource Optimization under Imperfect Prediction**

*Nicola Bui and Joerg Widmer (IMDEA Networks Institute, Spain)*

**Coffee break (10:00 – 10:30am): The 5th floor alcove**

**SESSION 8A: Resource management and QoS/QoE provisioning (10:30am – 12:00pm)**

Chair: Turgay Korkmaz, Room: CGS 505

**Analysis of MAC-level Throughput in LTE Systems with Link Rate Adaptation and HARQ Protocols**

*Raffaele Bruno, Antonino Masaracchia and Andrea Passarella (IIT‐CNR, Italy); Stefano Mangione (Università di Palermo, Italy)*

**Service Differentiation for Improved Cell Capacity in LTE Networks**

*Mattia Carpin and Andrea Zanella (University of Padova, Italy); Kashif Mahmood (Telenor, Norway); Jawad Rasool (Telenor ASA, Norway); Ole Grøndalen (Telenor, Norway); Olav Norvald Østerbø (Telenor Corporate Development, Norway)*

**Sharing low‐cost wireless infrastructures with telecommunications operators for backhauling 3G services in deprived rural areas**

*Francisco Javier Simó Reigadas (Universidad Rey Juan Carlos, Spain); Esteban Municio and Eduardo Morgado (Rey Juan Carlos University, Spain); Eva M. Castro and Andrés Martínez (Universidad Rey Juan Carlos, Spain)*

**SESSION 8B: Topology-Aware Networking (10:30am – 12:00pm)**

Chair: Thrasyvoulos Spyropoulos, Room: CGS 527

**Navigo: Interest Forwarding by Geolocations in Vehicular Named Data Networking**

*Giulio Grassi (University Pierre et Marie Curie, France); Davide Pesavento (Université Pierre et Marie Curie, France); Giovanni Pau (UPMC Sorbonne Universités & UCLA, France); Lixia Zhang (University of California at Los Angeles, USA); Serge Fdida (UPMC Sorbonne Universités, France)*

**Lightweight Clustering of Spatio‐Temporal Data in Resource Constrained Mobile Sensing**

*Ghulam Murtaza (University of New South Wales & Network Research Lab, Australia); Andreas Reinhardt (TU Clausthal, Germany); Salil S Kanhere (The University of New South Wales, Australia); Sanjay Jha (University of NSW, Australia)*

**Coop-DMAC: A Cooperative Directional MAC Protocol for Wireless Networks**

*Peng Wang, Marina Petrova and Petri Mähönen (RWTH Aachen University, Germany)*

**Lunch (12:00am – 1:30pm)**

West Campus Dining Hall: 275 Babcock Street, Boston, MA 02215

**SESSION 9A: Modeling, Measurements and Performance Analysis (1:30 – 3:00pm)**

Chair: Joerg Widmer, Room: CGS 505

**Real‐Time Internet Traffic Classification using Deep Learning**

*Vikas Verma (ERICSSON RESEARCH INDIA, India)*

**Impact of Country‐scale Internet Disconnection on Structured and Social P2P Overlays**

*Ding Ding and Mauro Conti (University of Padua, Italy); Renato Figueiredo (University of FLorida, USA)*

**Smartphone users' mobile network's quality provision and VoLTE intend: Six‐months field study**

*Katarzyna Wac (University of Geneva & Quality of Life group, Switzerland); Gerardo Pinar, Mattia Gustarini and Jerome Marchanoff (University of Geneva, Switzerland)*

**SESSION 9B: Video Broadcast & Distribution (1:30 – 3:00pm)**

Chair: Bo Sheng, Room: CGS 527

**Reliable Videos Broadcast with Network Coding and Coordinated Multiple Access Points**

*Pouya Ostovari (Temple University & Computer and Information Sciences, USA); Jie Wu (Temple University, USA)*

**U-TV: User-centric Scalable DTV broadcast over Heterogeneous Wireless Networks**

*Chetna Singhal and Swades De (Indian Institute of Technology Delhi, India); Hari Gupta (Indian Institute of Technology, Delhi, India)*

**Work-In-Progress Papers**

#### Multi-level Sample Importance Ranking based Progressive Transmission Strategy for Time Series Body Sensor Data

*Ming Li (California State University, USA); Yu Cao (The University of Massachusetts Lowell, USA); Balakrishnan Prabhakaran (University of Texas at Dallas, USA)*

#### An Analysis of Opportunistic Forwarding for Correlated Wireless Channels

*Anand Seetharam (California State University Monterey Bay, USA); Jim Kurose (University of Massachusetts at Amherst, USA)*

#### Impact of Network Monitoring in IEEE 802.15.4e-based Wireless Sensor Networks

*Dario Fanucchi (University Augsburg, Germany); Barbara Staehle (Fraunhofer ESK, Germany); Rudi Knorr (Fraunhofer Institute for Embedded Systems and Communication Technologies (ESK), Germany)*

#### Magemite: Character Inputting System Based on Magnetic Sensor

*Yuyang Ke, Yan Xiong, Yiqing Hu, Xudong Gong and Wenchao Huang (University of Science and Technology of China, P.R. China)*

**Towards an Incentive-aware Cross Layer Simulation Model for Multihop Video Dissemination**

*Matthias Wichtlhuber (Technische Universität Darmstadt, Germany); Mahdi Mousavi, Hussein Al-Shatri, Anja Klein and David Hausheer (TU Darmstadt, Germany)*

#### An Integrated Simulation Environment for Wireless Sensor Networks

*Mariorosario Prist, Andrea Monteriù and Sauro Longhi (Università Politecnica delle Marche, Italy); Federico Giuggioloni (Università di Bologna, Italy); Alessandro Freddi (Università Politecnica delle Marche, Italy)*

**Autonomous Mobile Agent based Intrusion Detection Framework in Wireless Body Area Networks**

*Geethapriya Thamilarasu and Zhiyuan Ma (University of Washington Bothell, USA)*

**Demos**

#### Transition-enabled Event Dissemination for Pervasive Mobile Multiplayer Games

*Björn Richerzhagen, Marc Schiller, Max Lehn, Denis Lapiner and Ralf Steinmetz (Technische Universität Darmstadt, Germany)*

#### A Demonstration for Content Delivery on Wi-Fi Direct Enabled Devices

*Claudio E. Casetti, Carla-Fabiana Chiasserini and Luciano Curto Pelle (Politecnico di Torino, Italy); Carolina Del Valle (Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico); Yufeng Duan and Paolo Giaccone (Politecnico di Torino, Italy)*

#### WARPsim: A Code-Transparent Network Simulator for WARP Devices

*Andreas Schumacher, Martin Serror and Christian Dombrowski (RWTH Aachen University, Germany); James Gross (Royal Institute of Technology (KTH), Sweden)*

**A Software Tool for Coverage Planning through Different Applications of Optimal Spatial Interpolation**

*Nikos Perpinias, Alexandros Palaios, Janne Riihijärvi and Petri Mähönen (RWTH Aachen University, Germany)*

#### APP and PHY in Harmony: Demonstrating Scalable Video Streaming Supported by Flexible Physical Layer Control

*Denny Stohr and Matthias Schulz (Technische Universität Darmstadt, Germany); Matthias Hollick (Technische Universitöt Darmstadt & Secure Mobile Networking Lab, Center for Advanced Security Research Darmstadt, Germany); Wolfgang Effelsberg (University of Mannheim, Germany)*

#### Anticipatory Quality Adaptation for Mobile Video Streaming: Reaching Perfect Fluency by Channel Prediction

*Stefan Valentin (Huawei Technologies, France); Sami Mekki (France Research Center, Huawei Technologies, France)*

**WoWMoM 2015 Workshop Program**

**Sunday June 14th**

1. Internet of Things- Smart Objects and Services (IoT-SoS) : CGS 421

2. Autonomic and Opportunistic Communications (AOC) : CGS 423

3. Smart Vehicles (SmartVehicles) : CGS 521

4. Video Everywhere (VidEv) : CGS 523

5. COgnitive Radio Applications and aLgorithms (CORAL) : CGS 527

**Workshop Program (IoT-SoS 2015)**

***Room: CGS 421***

8:30 – 9:00: Registration

9:00 – 9:05: Opening Remarks (Nilanjan Banerjee and Salvatore Distefano)

9:05 – 10:00: *Keynote: “Sonar Inside Your Body: Toward Implantable Sensor Networks”*

 Dr. Tommaso Melodia,

Department of Electrical and Computer Engineering

Northeastern University.

10:00 – 10:30: Coffee Break

10:30 – 12:00: Session 1. IoT Applications. (*Chair: Dr. Nilanjan Banerjee*)

[1] A Rational Mechanism for Coordinating Crowdsourced Resources for Geo-temporal Request Satisfaction, *Christine Bassem and Azer Bestavros (Boston University, USA)*

[2] Experiments with Security and Privacy in IoT Networks, *Mary R Schurgot and David Shinberg (LGS Innovations, USA); Lloyd Greenwald (LGS Innovations / Bell Labs, USA)*

[3] PhyNetLab: Architecture Design of Ultra-Low Power Wireless Sensor Network Testbed, *Aswin Karthik Ramachandran Venkatapathy, Moritz Roidl, Jan Emmerich and Andreas Riesner (TU Dortmund University,Germany); Michael ten Hompel (TU Dortmund, University of Technology & Fraunhofer-Institut Materialflow and Logistics, Germany)*

[4] Cost-efficient universal Approach for Remote Meter Reading Using Web Services and Computer Vision, *Henning Puttnies, Vlado Altmann, Frank Golatowski and Dirk*

*Timmermann (University of Rostock, Germany)*

12:00 – 1:30: Lunch Break

1:30 – 2:45: Session 2. Wireless Systems. (*Chair: Dr. Mary R. Schurgot*)

[1] An IEEE 802.11ah Programmable Modem, *Raul Casas, Vakis Papaparaskeva and Xuehong Mao (Cadence Design Systems, USA); Rishi Kumar and Piyush Kaul (Cadence*

*Design Systems, India); Samer Hijazi (Cadence Design Systems, USA)*

[2] Performance Analysis of IoT-Enabling IEEE 802.11ah Technology and its RAW Mechanism with Non-Cross Slot Boundary Holding Schemes, *Muhammad Qutab-ud-din and Ali Hazmi (Tampere University of Technology, Finland); Behnam Badihi, Anna Larmo and Johan Torsner (Ericsson Research, Finland); Mikko Valkama (Tampere University of Technology, Finland)*

[3] Highly Scalable Fair Contention Resolution Scheme Based on Idle Time, *Byung-Jae Kwak (Electronics and Telecommuncations Research Institute, Korea); Junhyuk Kim (KAIST, Korea); Nah-Oak Song (Korea Advanced Institute of Science and Technology (KAIST), Korea); Kyounghye Kim and June-Koo Kevin Rhee (KAIST, Korea); Kapseok Chang (ETRI, Korea); Moon-Sik Lee (Electronics and Telecommunications Research Institute & Stanford University, Korea)*

2:45 – 2:50: Closing Remarks

3:00: End of Workshop

**Workshop Program (AoC 2015)**

***Room: CGS 423***

8:30 – 9:00: Registration

9:00 – 9:05: Opening Remarks

9:05 – 10:00: *Keynote: "Opportunistic Offloading on the Edge”*

 Thrasyvoulos Spyropoulos (EURECOM, France)

10:00 – 10:30: Coffee Break

10:30 – 12:00: Session 1: Modeling (*Chair: Dr. Matteo Mordacchini*)

[1] Characterizing Opportunistic Communication with Churn for Crowd-counting, *Ljubica Pajevic (KTH, Royal Institute of Technology, Sweden); Gunnar Karlsson (KTH Royal Institute of Technology, Sweden)*

[2] A Markov chain model for drop ratio on one-packet buffers DTNs, *Victor Ramiro (University of Toulouse & ISAE, France); Dinh Khanh Dang (University of Toulouse - ISAE, France); Gwilherm Baudic (ISAE - Université de Toulouse, France); Tanguy Perennou and Emmanuel Lochin (University of Toulouse - ISAE, France)*

[3] Inferring Content-Centric Traffic for Opportunistic Networking from Geo-location Social Networks, *Pavlos Sermpezis and Thrasyvoulos Spyropoulos (EURECOM, France)*

12:00 – 1:30: Lunch Break

1:30 – 2:20: Session 2 - Opportunistic computation (*Chair: Dr. Matteo Mordacchini*)

[1] Computational Ferrying: Challenges in Deploying a Mobile High Performance Computer, *Alireza Monfared, Mostafa Ammar and Ellen Zegura (Georgia Institute of Technology, USA); David Doria and David Bruno (United States Army Research Laboratory, USA)*

[2] The design of a generalised approach to the programming of systems of systems, *Geoff Coulson, Gordon Blair, Yehia Elkhatib and Andreas U. Mauthe (Lancaster University, United Kingdom)*

2.20 – 3:10: Session 3 - Information processing (*Chair: Dr. Matteo Mordacchini*)

[1] Inter-Session Network Coding in Delay Tolerant Mobile Social Networks: an Empirical Study, *Neetya Shrestha and Lucile Sassatelli (I3S - Université Nice Sophia Antipolis/CNRS UMR 7271, France)*

[2] Socially-Aware Content Retrieval using Random Walks in Disruption Tolerant Networks, *Tuan Le and Haik Kalantarian (University of California, Los Angeles, USA); Mario Gerla (University of California at Los Angeles, USA)*

3:10: End of Workshop

**Workshop Program (SmartVehicles 2015)**

***Room: CGS 521***

8:30 – 8:50: Registration

8:50 – 9:00: Opening Remarks

9:00 – 10:00: *Keynote: "Beyond Position: Scaling Challenges in Future Vehicular Networks”*

 Marco Gruteser, Rutgers University, USA

10:00 – 10:30: Coffee Break

10:30 – 11:45: Session 1: Communications & Data Dissemination (*Chair: Dr. Jérôme Härri*)

[1] Performance Evaluation of a Mixed Vehicular Network with CAM-DCC and LIMERIC Vehicles, *Bin Cheng and Ali Rostami (Rutgers University, WINLAB, USA); Marco Gruteser (WINLAB / Rutgers University, USA); John Kenney and Gaurav Bansal (Toyota InfoTechnology Center, USA); Katrin Sjoberg (Volvo, Sweden)*

[2] Taxi-Cab Cloud Architecture to Offload Data Traffic from Cellular Networks, *Kenneth U Ezirim (Graduate Center, City University of New York, USA); Shweta Jain (York College CUNY & Graduate Center of CUNY, USA)*

[3] Throughput Analysis of IEEE 802.11p-based Multi-Hop V2I Communications, *Ribal Atallah (Concordia University, Canada); Maurice J. Khabbaz (Notre-Dame University, Lebanon); Chadi Assi (Concordia University, Canada)*

12:00 – 1:30: Lunch Break

1:30 – 2:20: Session 2 - Traffic Estimation (*Chair: Dr. Raffaele Bruno*)

[1] Opportunistic Calibration of Smartphone Orientation in a Vehicle, *Bahador Khaleghi (Intelligent Mechatronic Systems (IMS), Canada); Akrem Saad El-ghazal and Allaa R. Hilal (University of Waterloo, Canada); Jason Toonstra and Ben Miners (Intelligent Mechatronic Systems (IMS), Canada); Otman Basir (University of Waterloo, Canada)*

[2] V2X Data Dissemination Delay for Vehicular Traffic Density Estimations, *Sosina Gashaw and Jérôme Härri (EURECOM, France)*

2.20 – 3:10: Session 3 – ITS Applications (*Chair: Dr. Salil Kanhere*)

[1] Min-Max Fair Car-Parking Slot Assignment, *Elisabetta Alfonsetti (KTH, USA); Pradeep Chathuranga Weeraddana (KTH, Stockholm, Sweden); Carlo Fischione (KTH, Sweden)*

[2] A Fail Safe Broadcast Protocol for Collaborative Intelligent Vehicles, *Yitian Gu, Shou-pon Lin and Nick Maxemchuk (Columbia University, USA)*

3:10: End of Workshop

**Workshop Program (VidEv 2015)**

***Room: CGS 523***

8:30 – 9:00: Registration

9:00 – 10:00: *Keynote: “Video everywhere will require dense networking”*

 Thomas DC Little (Boston University, USA)

10:00 – 10:30: Coffee Break

10:30 – 12:00: Session 1 (*Chair: Yousof Naderi*)

[1] An Adaptation Mechanism for Robust OTT Video Transmission, *Fakher Oueslati and Jean-Charles Grégoire (University of Quebec, INRS)*

[2] Multi-Source Mobile Video Streaming with Proactive Caching and D2D Communication, *Vasilios A. Siris and Dimitrios Dimopoulos (Athens University of Economics and Business)*

[3] LiTMaS: Live Road Traffic Maps for Smartphones, *S. M. Iftekharul Alam, Sonia Fahmy and Yung-Hsiang Lu (Purdue University)*

12:00 – 1:30: Lunch Break

1:30 – 2:30: Session 2 (*Chair: Yousof Naderi*)

[1] Streaming 4K/UHD Video to the Rest of Us: Can Bandwidth Sharing Help?, *Isabel Montes, Jaymari Chua, Joseph Michelangelo Cruz, Augusto Remillano, II, Joseph Darwin Young, Roel Ocampo and Cedric Angelo Festin (University of the Philippines)*

[2] HEVC Decoder Optimization in Low Power Configurable Architecture for Wireless Devices, *Vasileios Magoulianitis and Ioannis Katsavounidis (University of Thessaly)*

2:30: End of Workshop

**Workshop Program (CORAL 2015)**

***Room: CGS 527***

8:30 – 9:00: Registration

9:00 – 9:15: Introduction from the Workshop Chairs

9:15 – 10:00: *Keynote Presentation*: Alexander M. Wyglinski (Worcester Polytechnic Institute, USA)

10:00 – 10:30: Coffee Break

10:30 – 12:00: Session 1 - Sensing I (*Chair: Dr. Yue (Frank) Gao*)

[1] An Experimental Study on the Statistical Properties of Radio Environment Noise  *Alexandros Palaios, Hauke Dose, Janne Riihijärvi and Petri Mähönen (RWTH Aachen University, Germany)*[2] A Multi-Channel Spectrum Sensing Scheme with Filter Bank Realization for LTE Signals *Trung Thanh Nguyen (Faculty of Engineering, The University of Duisburg-Essen, Germany); Hanwen Cao (Huawei European Research Center, Germany); Theo Kreul (University of Duisburg-Essen, Germany); Thomas Kaiser (Universität Duisburg-Essen, Germany)*[3] Spectrum Sensing based on Maximum Eigenvalue Approximation in Cognitive Radio Networks  *Adeel Ahmed, Yim-Fun Hu, Jim M. Noras and Prashant Pillai (University of Bradford, United Kingdom)*

12:00 – 1:30: Lunch Break

1:30 – 3:00: Session 2 – Sensing II (*Chair: Dr. Antonio G. Marques*)

[1] Sub-Nyquist Rate Wideband Spectrum Sensing over TV white space for M2M Communications *Yuan Ma, Yue Gao and Clive Parini (Queen Mary University of London, United Kingdom)*[2] A Weighted Diversity Combining Technique for Cyclostationarity Detection Based Spectrum Sensing in Cognitive Radio Networks *Daiki Cho and Shusuke Narieda (National Institute of Technology, Akashi College, Japan)*[3] Unified Approach for Performance Analysis of Cognitive Radio Spectrum Sensing over Correlated Multipath Fading Channels *Salam Al-Juboori and Xavier N Fernando (Ryerson University, Canada)*

3:00 – 3:30:Coffee Break

3:30 – 5:30: Session 3 – Spectrum Access (*Chair: Dr. Luca Bedogni*)

[1] Rendezvous in cognitive radio ad-hoc networks with asymmetric channel view

*Akbar Hossain and Nurul I Sarkar (Auckland University of Technology, New Zealand)*

[2] Fusion Based Spectrum Decision Framework for Cognitive Radio Users

*Ahmad Naeem Akhtar (National University of Science and Technology(NUST), College of Telecommunication Engineering, Islamabad, Pakistan)*

[3] Feasibility Study on Application of Impulse-UWB for Control Channel in Cognitive Radio Networks
*Michael Doering, Anatolij Zubow and Adam Wolisz (Technische Universität Berlin, Germany)*

[4] Underlay Multi-Hop Cognitive Networks with Orthogonal Access
*Antonio G. Marques (Universidad Rey Juan Carlos, Spain); Sergio Molinero (King Juan Carlos University, Spain); Georgios B. Giannakis (University of Minnesota, USA)*

5:30: End of Workshop