Message from the General Chair

It is my great pleasure to welcome you to the International Conference on Computer Communications and Networks (ICCCN 2013) which takes place in beautiful Nassau, Bahamas on July 30 – August 2, 2013. It has been a real honor and privilege to serve as the General Chair of the conference.

Over the past twenty-two years, ICCCN has provided a cross-disciplinary venue for researchers and practitioners to address the rich space of communications and networking research and technology. This year, the program spans four days and includes one day of thematic workshops followed by three days of the main conference. The three Keynote presentations, three Panels, and planned social events will provide ample opportunities for discussions, debate, and exchange of ideas and information among conference participants.

The conference would not have been possible without the enthusiastic and hard work of a number of colleagues. We would like to express our appreciation to the Technical Program Chairs, Christian Poellabauer and Fan Zhai, for their valuable contribution in assembling the high quality conference program. We also thank the Workshop General Co-Chairs, Kewei Sha and Aaron Striegel, the Publicity Co-Chairs, Liqiang Zhang, Xinbing Wang, and Kyriakos Vlachos, the Student Travel Grant Co-Chairs, Nadine Shillingford and Chris Miller, the Publication Chair, Guido Maier, and the individual track and workshop chairs. A conference of this size relies on the contributions of many volunteers, and we would like to acknowledge the efforts of our TPC members and referees and their invaluable help in the review process. We are also grateful to all the authors who trusted the conference with their work.

Special thanks to the Keynote Speakers, Drs. Muriel Medard, Jack Brassil, and Admela Jukan, and the Panel Moderators, Drs. Malathi Veeraraghavan, Tilman Wolf, and Ilya Baldin, and all the panelists for sharing their views on current research topics. We appreciate the support of our sponsors, the IEEE Communications Society and NSF. We also thank Dr. E. K. Park, Chair of the ICCCN steering committee, for his vision and leadership.

We look forward to an exciting week of insightful presentations, discussions, and sharing of technical ideas with colleagues from around the world. We thank you for attending the conference and we hope that you enjoy your visit to the Bahamas.

George Rouskas, North Carolina State University, USA
ICCCN 2013 General Co-Chair
Welcome to ICCCN 2013!

The ICCCN conference has established itself as a worldwide reference for the dissemination of high-quality research in all aspects of computer communications and networking, and for fostering interaction and exchange of ideas.

ICCCN 2013 was fortunate to attract a high interest among the community, and the main conference received 300 submissions from 33 countries in five continents. The submissions span 11 tracks. The high number of submissions provided an excellent opportunity for a high-quality program, but also called for a demanding and laborious paper evaluation process. The 337 members of the Technical Program Committee worked efficiently and responsibly under tight time constraints to produce at least three reviews for each paper that provided the basis for the final paper selection.

The reviewing and selection process led to 86 regular papers and 9 invited papers for the main conference, resulting in an acceptance rate of 31%. Given the large number of submitted manuscripts and the tight time and space constraints, many strong submissions could not be accepted. To allow the conference participants to benefit from further worthwhile and stimulating research results, 30 papers were accepted for presentation at the workshops co-located with the main conference.

The main program of ICCCN 2013 covers three days and includes streams of up to four parallel sessions. The program is further enriched by three keynote presentations offered by world-renowned researchers in the field, and three plenary panel discussions that address topics in data center networks, future network architectures, and software-defined networking and network virtualization. The main program is complemented by a diverse set of high-quality workshops.

We are grateful to all authors who trusted us with their work; without them there would be no conference. The final result would not have been possible without the dedication and hard work of many colleagues. Special thanks are due to the track chairs, workshop chairs, the members of the Technical Program Committees, the General Chair, and to all external referees for the quality and depth of the reviews, and their sense of responsibility and responsiveness under very tight deadlines.

Fan Zhai, Qualcomm Inc., USA
Christian Poellabauer, University of Notre Dame, USA

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  o Ivan Stojmenovic, University of Ottawa, Canada
  o Kai Xing, University of Science and Technology of China, China

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- Elias Tragos, Foundation for Research and Technology Hella (FORTH-ICS), Greece
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• Kaiqi Xiong, Rochester Institute of Technology, USA
• Yibo Xue, Tsinghua University, China
• Hui Zang, Sprint-Nextel Corp., USA
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• Leon Poutievski, Google
• Gwendal Simon, Institut Telecom - Télécom Bretagne, France
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• Jacobus Van der Merwe, University of Utah, USA
• Lan Wang, University of Memphis, USA
• George Xylomenos, Athens University of Economics and Business, Greece

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• Urzii Ayesta, BCAM - Basque Center for Applied Mathematics, Spain
• Loc Bui, Tan Tao University, Vietnam
• Niklas Carlsson, Linköping University, Sweden
• Giuliano Casale, Imperial College London, UK
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• Paolo Giaccone, Politecnico di Torino, Italy
• Javier Gomez, National University of Mexico, Mexico
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• Vasilios Siris, Athens University of Economics and Business / ICS-FORTH, Greece
• Vic Thomas, BBN Technologies
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• George Xylomenos, Athens University of Economics and Business, Greece

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• Wenzhong Li, Nanjing University, China
• Aniket Mahanti, University of Auckland, Australia
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• Zhipeng Ouyang, OPNet, USA
• Ioannis Psaras, University College London, UK
• Philippe Robert, INRIA, France
• Xu Shao, Institute for Infocomm Research, Singapore
Scalable, Reliable, and Energy-Efficient Networks (SREN)

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- Vangelis Angelakis, Linköping University, Sweden
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- Joerg Widmer, Institute IMDEA Networks, Spain
- Steven Wright, AT&T
- Beichuan Zhang, University of Arizona, USA
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- Di Wu, Sun Yat-Sen University, China

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- Jens-Matthias Bohli, NEC Laboratories Europe, Germany
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- Zhenhai Duan, Florida State University, USA
- Csilla Parkas, University of South Carolina, USA
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- Ana Isabel Gonzalez-Tablas Ferreres, Universidad Carlos III de Madrid, Spain
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- Yuanchao Shu, Zhejiang University, P.R. China
- Venkatachalam Subramanian, Georgia Institute of Technology, USA
- Yuelong Tian, Zhejiang University, P.R. China
- Yuehua Wang, Wayne State University, USA
- Jinhong Wu, Samsung Information Systems America, USA
Welcome to the ICCCN 2013 Workshops! As an integral part of the main conference, the ICCCN workshop program provides international forums for scientists and engineers from academia and industry to exchange and share their experiences, research results, and new ideas on hot and emerging topics on computer communications and networks. This year we enjoyed the great privilege to have worked with researchers across the world in organizing five workshops covering a variety of topics in the area of computer communications and networks. These workshops are:

- WiMAN – Wireless Mesh and Ad Hoc Networks
- PMECT – Performance Modeling and Evaluation of Computer and Telecommunication Networks
- MobiPST – Privacy, Security and Trust in Mobile and Wireless Systems
- ContextQoS – Context-Aware QoS Provisioning and Management for Emerging Networks, Applications and Services
- SN – Sensor Networks

We would like to thank all the workshop organizers for their leadership and hard work in putting together these excellent workshops. Organizing a workshop is a great contribution to the research community and it requires tremendous effort. We want to thank all workshop committee members and external reviewers for the time dedicated to reviewing the submitted papers. We are also grateful to all authors and invited speakers for contributing their work to these workshops. Many thanks are due to ICCCN General Chair Prof. George Rouskas and the ICCCN Program Co-Chairs Dr. Fan Zhai and Prof. Christian Poellabauer for their support and help on numerous aspects of the workshops. We also thank Publicity Chair Prof. Liqiang Zhang for his support and dedication. Finally, we would like to thank the Steering Committee Chair, Dr. E. K. Park, for his vision and dedication to maintaining ICCCN as a premiere international conference in computer communications and networks.

Kewei Sha, Oklahoma City University, USA
Aaron Striegel, University of Notre Dame, USA
ICCCN 2013 Workshop Co-Chairs
## Technical Program Overview

### Tuesday, July 30th, 2013 – Workshops

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<th>Room Arawak A/B</th>
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<tr>
<td>9:00-10:15</td>
<td>ContextQoS 1: Keynote</td>
<td></td>
<td>WiMAN 1: Keynote</td>
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<tr>
<td>10:15-10:45</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>12:15-13:30</td>
<td>Lunch</td>
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<tr>
<td>13:30-15:00</td>
<td>ContextQoS 3: Context-aware QoS for Networking Applications</td>
<td>MobiPST Mobile Privacy &amp; Security</td>
<td>WiMAN 3: Optical, Sensor, and Application-Oriented Networks</td>
</tr>
<tr>
<td>15:00-15:30</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<tr>
<td>15:30-17:30</td>
<td>PMECT Networked System Performance</td>
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<td>WiMAN 4: Mesh Networks, Wireless LANs, and Clouds</td>
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### Wednesday, July 31st, 2013 – Main Conference

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<tr>
<td>8:30-8:50</td>
<td>Opening Remarks</td>
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<tr>
<td>8:50-10:15</td>
<td>Keynote I: Placing Network Coding in the Network Speaker: Muriel Méard, MIT, USA</td>
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<td>10:15-10:45</td>
<td>Coffee Break</td>
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<td>12:15-13:30</td>
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<tr>
<td>13:30-15:00</td>
<td>Panel Discussion I: Data Center Networks Chair: Malathi Veeraraghavan, University of Virginia, USA</td>
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<tr>
<td>15:00-15:30</td>
<td>Networking Break</td>
<td>Networking Break</td>
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<tr>
<td>15:30-17:00</td>
<td>WLAN and Mesh Networks (LAMN I)</td>
<td>Information-Centric Networks and Security (NACSD II)</td>
<td>Packet Scheduling (NAPE II)</td>
<td>High Performance Networks (GCC II)</td>
</tr>
<tr>
<td>18:00-20:30</td>
<td>Conference Reception (Pool Deck)</td>
<td>Conference Reception</td>
<td>Conference Reception</td>
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<tbody>
<tr>
<td>8:50-10:15</td>
<td>Keynote II: Locating Mobile Devices Indoors: Opportunities, Theory, and Practice</td>
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<tr>
<td></td>
<td>Speaker: Jack Brassil, Hewlett-Packard Laboratories, USA</td>
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<tr>
<td>10:15-10:45</td>
<td>Coffee Break</td>
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<td>12:15-13:30</td>
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<tr>
<td>13:30-15:00</td>
<td>Panel Discussion II: Trends in Network Architecture</td>
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<td></td>
<td>Chair: Tilman Wolf, University of Massachusetts, USA</td>
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<tr>
<td>15:00-15:30</td>
<td>Networking Break</td>
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<tr>
<td>15:30-17:00</td>
<td>RFID and Ad Hoc Networks (LAMN II)</td>
<td>Algorithm and Middleware (SEP II)</td>
<td>P2P and Content Distribution (NAPE IV)</td>
<td>Resource Allocation (CCHN II)</td>
</tr>
<tr>
<td>17:00-17:15</td>
<td>Coffee Break</td>
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<tr>
<td>17:15-18:45</td>
<td>DTN and Miscellaneous Topics (LAMN III)</td>
<td>RFID, M2M Communications, and Social Sensing (SEP III+MCCN)</td>
<td>Multimedia and Networking (MRTM I+MCCN)</td>
<td>Physical Layer, Cellular Networks and Cognitive Radios (CCHN III)</td>
</tr>
<tr>
<td>19:00-22:00</td>
<td>Dinner/Banquet/Awards (Western Beach)</td>
<td>Dinner/Banquet/Awards</td>
<td>Dinner/Banquet/Awards</td>
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<tr>
<td>8:50-10:15</td>
<td>Keynote III: Next Steps Towards Internet-Optical Service Convergence: A Network Management Perspective</td>
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<tr>
<td></td>
<td>Speaker: Dr. Admela Jukan, Technische Universität Braunschweig, Germany</td>
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<td>10:15-10:45</td>
<td>Coffee Break</td>
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<td>12:15-13:30</td>
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<tr>
<td>13:30-15:00</td>
<td>Panel Discussion III: SDN and Network Virtualization</td>
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<td></td>
<td>Chair: Ilya Baldin, RENCI</td>
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<tr>
<td>15:00-15:30</td>
<td>Networking Break</td>
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<td></td>
<td>Scalable, Reliable, and Energy-Efficient Networks (SREN I)</td>
<td>Security, Privacy, and Trust II (SPT II)</td>
<td>NACSD Tutorial: GENI</td>
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<tr>
<td>17:00-17:15</td>
<td>Concluding Remarks</td>
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Technical Program

Workshops
Tuesday, July 30th

9:00—10:15

ContextQoS 1: Keynote

Room: Independence A
Title: “Performance Challenges in Networked Mobile Robot Systems”
Speaker: Dr. Patrick-Benjamin Bök, TU Dortmund University, Germany
Chair: Kewei Sha, Oklahoma City University, USA

WiMAN 1: Keynote

Room: Arawak A/B
Title: “Fast and Accurate Indoor Localization”
Speaker: Duc Tran, University of Massachusetts Boston, USA
Chair: Habib M. Ammari, University of Michigan-Dearborn, USA

10:45—12:15

ContextQoS 2: Adaptive QoS Provisioning

Room: Independence A
Chair: Dr. Patrick-Benjamin Bök (TU Dortmund University, Germany)

Delays QoS for Bandwidth Provisioning
Hengky Susanto (University of Massachusetts Lowell, USA); Byung-Guk Kim (University of Massachusetts at Lowell, USA)

Dynamic Link Classification based on Neuronal Networks for QoS Enabled Access to Limited Resources
Sebastian Subik (TU Dortmund University, Germany); Dennis Kaulbars (TU Dortmund, Germany); Patrick-Benjamin Bök (TU Dortmund, Germany); Christian Wietfeld (TU Dortmund University, Germany)

Elastic Network Design and Adaptive Flow Placement in Software Defined Networks
Julius Mueller (Technische Universität Berlin, Germany); Andreas Wierz (Technische Universität Berlin, Germany); Thomas Magedanz (TU Berlin / Fraunhofer FOKUS, Germany)

SN: Sensor Networks

Room: Independence C
Chair: Carol Niznik (NW Systems, USA)

Energy and Accuracy Trade-Offs in Accelerometry-Based Activity Recognition
Ning Wang (University of Southampton, United Kingdom); Geoff V Merrett (University of Southampton, United Kingdom); Robert G Maunder (University of Southampton, United Kingdom); Alex Rogers (University of Southampton, United Kingdom)

Energy Efficient Wireless Vehicular-Guided Actuator Network
Imene Boudellioua (KAUST, Saudi Arabia); Basem Shihada (KAUST, Saudi Arabia)

Games of Timing Theoretical Protocol Development and Performance Analysis for Missile Defense
Carol Niznik (NW Systems, USA)

Opportunistic Direct Interconnection between Co-Located Wireless Sensor Networks
Teng Jiang (University of Southampton, United Kingdom); Geoff V Merrett (University of Southampton, United Kingdom); Nick Harris (University of Southampton, United Kingdom)

WiMAN 2: Wireless and Mobile Ad-hoc Networks

Room: Arawak A/B
Chair: Duc Tran (University of Massachusetts Boston, USA)

Throughput Performance Analysis for Hybrid Wireless Networks over Fading Channels
Xin Wang (University of Texas at Arlington, USA); Qilian Liang (University of Texas at Arlington, USA)

ERMINE: Enabling Range Queries in MANET with Information-Centric Networking
Matteo Varvello (Bell Labs, Alcatel-Lucent, USA); Jairo O Esteban (Bell Labs, Lucent Technologies, USA); Mark Smith (Alcatel-Lucent, USA); Lloyd Greenwald (LGS Innovations /
Bell Labs, USA); Yang Guo (Bell Labs, Alcatel-Lucent, USA); Mary R Schurgot (LGS Bell Labs Innovations, USA)

**DHTs for cluster-based ad-hoc networks employing multi-hop relaying**
Bilal Zafar (Ilmenau University of Technology, Germany); Roman Alieiev (Ilmenau University of Technology, Germany); Liz Ribe-Baumann (Ilmenau University of Technology, Germany); Martin Haardt (Ilmenau University of Technology, Germany)

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**13:30—15:30**

**ContextQoS 3: Context-aware QoS for Networking Applications**

**Room:** Independence A  
**Chair:** Kalman Graffi (Universität Düsseldorf, Germany)

**Continuous Gossip-based Aggregation through Dynamic Information Aging**
Vitaliy Rapp (Technische Universität Darmstadt, Germany); Kalman Graffi (Universität Düsseldorf, Germany)

**Architectural Blueprints of a Unified Sensing Platform for the Internet of Things**
Vangelis Gazis (AGT Group (R&D) GmbH, Germany); Panayotis Kikiras (AGT Group (R&D) GmbH, Germany); Giorgos Mazarakis (AGT Group (R&D) GmbH, Germany); Nikolaos Frangiadakis (AGT Group (R&D) GmbH, Germany); Konstantinos Sasloglou (AGT Group (R&D) GmbH, Germany); Andreas Merentitis (AGT Group (R&D) GmbH, Germany); Kostas Mathioudakis (AGT Group (R&D) GmbH, Germany)

**Context as a Service integrated service enabler integrated in the clouds**
Oscar Rodríguez Rocha (Politecnico di Torino, Italy); Boris Moltchanov (Telecom Italia, Italy)

**MobiPST: Mobile Privacy & Security**

**Room:** Independence C  
**Chair:** Geoff V Merrett (University of Southampton, United Kingdom)

**Preserving Data Query Privacy in Mobile Mashups through Mobile Cloud Computing**
Rodney Owens (UNCC, USA); Weichao Wang (University of North Carolina at Charlotte, USA)

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**15:30—17:30**

**PMECT : Networked System Performance**

**Room:** Independence A  
**Chair:** Sebastian Subik (TU Dortmund University, Germany)

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**Performance Comparison of ENUM Name Servers**  
Saulo Henrique da Mata (Federal University of Uberlandia, Brazil); Johann M. H. Magalhaes (Federal Institute of Triangulo Mineiro, Brazil); Alexandre Cardoso (Federal University of Uberlandia, Brazil); Hélio Alexandre Carvalho (CPqD, Brazil); Paulo R. Guardieiro (Federal University of Uberlandia, Brazil)

**An Elitist Polynomial Mutation Operator for improved performance of MOEAs in Computer Networks**  
Kostas Liagkouras (University of Piraeus, Greece); Kostas Metaxiotis (University of Piraeus, Greece)

**Upper bounds on Unsuccessful Transmission Rate in Persistent and Non-Persistent CSMA Protocols**  
Dariusz Koscielnik (AGH University of Science and Technology, Poland); Marek Miskowicz (AGH University of Science and Technology, Poland); Jakub Szyduczynski (AGH University of Science and Technology, Poland)

**Causing Remote Hosts to Renege**  
Nasif Ekiz (F5 Networks, USA); Paul David Amer (University of Delaware, USA)

**A Software-Defined Networking approach for Disaster-Resilient WANs**  
Kien Nguyen (National Institute of Informatics, Japan); Quang Minh Tran (National Institute of Informatics, Japan); Shigeki Yamada (National Institute of Informatics, Japan)

**WiMAN 4: Mesh Networks, Wireless LANs, and Clouds**

**Main Conference**

**Wednesday, July 31st**

**Opening remarks**

8:50—10:15

**Keynote I**

**Room:** Independence B  
**Title:** Placing network coding in the network  
**Speaker:** Muriel Médard, MIT, USA  
**Chair:** George Rouskas, North Carolina State University, USA

10:45—12:15

**Invited paper session I**

**Room:** Independence B  
**Chair:** Aaron Striegel (University of Notre Dame, USA)

**Adaptive Wireless Mesh Networks: Surviving Weather Without Sensing It**  
Nauman Javed (University of Massachusetts, USA); Eric Lyons (University of Massachusetts Amherst, USA); Michael Zink (University of Massachusetts Amherst, USA); Tilman Wolf (University of Massachusetts, USA)

**Save For Later: A Technique for Improving End-to-End Mesh Network Performance**  
Yingxin Jiang (Amazon, USA); Shu Liu (University of Notre Dame, USA); Aaron D Striegel (University of Notre Dame, USA)

**Re-thinking 802.11 Rate Selection In The Face of Non-Altruistic Behavior**  
Andrew Blaich (University of Notre Dame, USA); Shu Liu (University of Notre Dame, USA); Aaron D Striegel (University of Notre Dame, USA)

**QoS-Aware Service Selection in Geographically Distributed Clouds**  
Xin Li (Nanjing University, P.R. China); Jie Wu (Temple University, USA); Sanglu Lu (Nanjing University, P.R. China)
Routing and Network Services (NACS D I)

Room: Independence A  
Chair: Ersin Uzun (PARC, USA)

Service Instantiation in an Internet with Choices  
Abhishek Dwaraki (University of Massachusetts, USA); Tilman Wolf (University of Massachusetts, USA)

Network Hypervisors: Managing the Emerging SDN Chaos  
Shufeng Huang (University of Kentucky, USA); James Griffioen (University of Kentucky, USA)

OpenADN: A Case for Open Application Delivery Networking  
Subbarthi Paul (Washington University in St. Louis, USA); Raj Jain (Washington University in St. Louis, USA); Jianli Pan (Washington University in Saint Louis, USA); Jayaraman Iyer (Cisco Systems, USA); David R Oran (Cisco Systems, USA)

Intra-Domain Pathlet Routing  
Marco Chiesa (Roma Tre University, Italy); Gabriele Lospoto (Roma Tre University, Italy); Massimo Rimondini (Roma Tre University, Italy); Giuseppe Di Battista (Roma Tre University, Italy)

Transport Protocols (NAPE I)

Room: Independence C  
Chair: Dan Ionescu (University of Ottawa, Canada)

Transparent Network Protocol Testing and Evaluation  
Xiaoshuang Wang (Binghamton University, USA); Sunil Agham (Binghamton University, USA); Vikram P. Munishwar (Binghamton University, USA); Vaibhav Nipunage (Binghamton University, USA); Shailendra Singh (University Of California, Riverside, USA); Kartik Gopal (Binghamton University, USA)

ST-XCP: A Stable XCP Protocol  
Zhiqiang Shi (Institute of Information Engineering, Chinese Academy of Sciences, P.R. China); Dan Ionescu (University of Ottawa, Canada); Dongli Zhang (University of Ottawa, Canada)

Priority-Based Deadline-Aware Datacenter TCP  
Zhengwei Zhao (Chinese Academy of Sciences, P.R. China); Jingping Bi (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhixiong Jiang (Information Technology Center, China National Petroleum Corporation, P.R. China); Chunyang Lu (Information Technology Center, China National Petroleum Corporation, P.R. China); Yushan Cai (Information Technology Center, China National Petroleum Corporation, P.R. China)

Cloud Technology and Applications (GCC I)

Room: Arawak (A/B)  
Chair: Ron Brightwell (Sandia National Labs, USA)

An Approach for Privacy Enhanced Pixel-Level Image Processing in Hybrid Clouds  
Arash Nourian (McGill University, Canada); Muthucumaru Maheswaran (McGill University, Canada)

VeloZ: A Charging Policy Specification Language for Infrastructure Clouds  
Airton Pereira (Federal University of Pernambuco, Brazil); Paulo Neto (UFPE, Brazil); Vinicius Cardoso Garcia (Federal University of Pernambuco, Brazil); Fernando Trinta (Federal University of Ceara, Brazil); Rodrigo Assad (C.E.S.A.R., Brazil)

Evaluation of Cloud-RAID: A Secure and Reliable Storage Above the Clouds  
Maxim Schnjakin (Hasso-Plattner Institute, Germany); Christoph Meinel (Hasso-Plattner Institute, University of Potsdam, Germany)

OCNI – Open Cloud Networking Interface  
Houssem Medhioub (Institut Mines-Telecom, France); Bilel Msekni (Institut Mines-Telecom, France); Djamal Zeghlache (Institut Mines-Telecom, France)

13:30—15:00

Panel Discussion I

Room: Independence B  
Topic: Data Center Networks  
Moderator: Malathi Veeraraghavan, University of Virginia, USA
**Panelists:**
Guohui Wang, IBM Research, USA  
Sudipta Sengupta, Microsoft Research, USA  
Paulie Germano, Google Research, USA  
Krishna Kant, George Mason University and NSF, USA

**15:30—17:00**

**WLAN and Mesh Networks (LAMN I)**

**Room:** Independence B  
**Chair:** Haiying Shen (Clemson University, USA)

**Adaptive Backoff Algorithm for IEEE 802.11 DCF under MPR Wireless Channels**
Arun I B (Indian Institute of Technology, Madras, India); Venkatesh T. G (Indian Institute of Technology Madras, India)

**On the Performance of the IEEE 802.11 in a Multi-channel Environment**
Marcos Fagundes Caetano (University of Brasilia, Brazil); Bruno Lourenço (University of Brasilia, Brazil); Jacir Luiz Bordim (University of Brasilia, Brazil)

**Access Points Can Tell More for Wiser Selection**
Shibo Xu (TsingHua University, P.R. China); Fengyuan Ren (Tsinghua University, P.R. China); Yinsheng Xu (Tsinghua University, P.R. China); Chuang Lin (Tsinghua University, P.R. China); Peng Cheng (Tsinghua University, P.R. China)

**Channel Requirements for Interference-free Wireless Mesh Networks to Achieve Maximum Throughput**
Aizaz U Chaudhry (Carleton University, Canada); John Chinnock (Carleton University, Canada); Roshyd H Hafez (Carleton University, Canada)

**Information-Centric Networks and Security (NACSD II)**

**Room:** Independence A  
**Chair:** Christos Papadopoulos (Colorado State University, USA)

**A Verification Service Architecture for the Future Internet**
Ahmet C Babaoglu (North Carolina State University, USA); Rudra Dutta (North Carolina State University, USA)

**An Empirical Study of Receiver-based AIMD Flow-Control Strategies for CCN**
Manolis Sifalakis (University of Basel, Switzerland); Stefan Braun (University of Basel, Switzerland); Massimo Monti (University of Basel, Switzerland); Christian F Tschudin (University of Basel, Switzerland)

**DoS & DDoS in Named Data Networking**
Paolo Gasti (New York Institute of Technology, USA); Gene Tsudik (University of CA, Irvine, USA); Ersin Uzun (PARC, USA); Lixia Zhang (University of California at Los Angeles, USA)

**Secure Name Resolution for Identifier-to-Locator Mappings in the Global Internet**
Xiruo Liu (Rutgers University, USA); Wade Trappe (WINLAB, Rutgers University, USA); Yanyong Zhang (Rutgers University, USA)

**Packet Scheduling (NAPE II)**

**Room:** Independence C  
**Chair:** Seung-Jong Park (Louisiana State University, USA)

**Providing Near-Optimal Fair-Queueing Guarantees at Round-Robin Amortized Cost**
Paolo Valente (University of Modena and Reggio Emilia, Italy)

**AFCD: An Approximated-Fair and Controlled-Delay Queuing for High Speed Networks**
Lin Xue (Louisiana State University, USA); Suman Kumar (Troy University, USA); Cheng Cui (Louisiana State University, USA); Praveen Kumar Kondikoppa (Louisiana State University, USA); Chih-hui Chiu (Louisiana State University, USA); Seung-Jong Park (Louisiana State University, USA)

**Deriving Pareto-optimal performance bounds for 1 and 2-relay wireless networks**
Qi Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Katia Jaffrès-Runser (University of Toulouse, France); Claire Goursaud (INSA-Lyon, France); Jun Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Yi Sun (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Jean-Marie Gorce (INSA-Lyon, France)
Modular EGS Architectures for Optical Interconnections
Dario G. Garao (Politecnico di Milano, Italy); Guido Maier (Politecnico di Milano, Italy); Achille Pattavina (Politecnico di Milano, Italy)

High Performance Networks (GCC II)

Room: Arawak (A/B)
Chair: Louise E. Moser (University of California, Santa Barbara, USA)

Location-based Multicast in Wireless Data Center Network
Chunpeng Liao (Tsinghua University, China); Ying Liu (Tsinghua University, China); Yong Cui (Tsinghua University, China); Xin Wang (Stony Brook University, USA)

Seamless Migration of Virtual Machines Across Networks
Umar Kalim (Virginia Tech, USA); Mark K. Gardner (Virginia Tech, USA); Eric Brown (Virginia Tech, USA); Wu-chun Feng (Virginia Tech, USA)

Accelerating Allreduce Operation: A Switch-based Solution
NongDa Hu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Dawei Wang (Researcher, USA); Zheng Cao (Chinese Academy of Sciences, P.R. China); Xuejun An (Institute of Computing Technology, CAS, P.R. China); Ninghui Sun (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)

Thursday, August 1st

8:50 – 10:15

Keynote II

Room: Independence B
Title: Locating Mobile Devices Indoors: Opportunities, Theory, and Practice
Speaker: Jack Brassil, Hewlett-Packard Laboratories, USA
Chair: George Rouskas, North Carolina State University, USA

Invited Paper Session -II

Room: Independence B
Chair: Kewei Sha (Oklahoma City University, USA)

Decima: Virtualized I/O Management in 3D Teleimmersive Networks
Raoul Rivas (University of Illinois at Urbana-Champaign, USA); Md A Arefin (University of Illinois at Urbana Champaign, USA); Klara Nahrstedt (University of Illinois at Urbana-Champaign, USA)

Multi path PERT
Ankit Singh (Amazon, USA); Narasimha Reddy (Texas A & M University, USA)

Diverse Infrastructure and Architecture for Datacentre and Cloud Resilience
James P.G. Sterbenz (The University of Kansas and Lancaster University, USA) Prasad Kulkarni (The University of Kansas, USA)

Budget Minimized Resource Allocation and Task Scheduling in Distributed Grid/Clouds
Pan Yi (UNL, USA); Hui Ding (Beijing University of Posts and Telecommunications, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

Routing and Cross-Layer Design (SEP I)

Room: Independence A
Chair: Donghyun Kim (North Carolina Central University, USA)

Avoiding Heterogeneous Interference through Dynamic Routing in Wireless Sensor Networks
Hou Meng (Tsinghua University, P.R. China); Fengyuan Ren (Tsinghua University, P.R. China)

Spreading the Load in a Tree Type Routing Structure
Declan Delaney (University College Dublin, Ireland); Lina Xu (University College Dublin, Ireland); Gregory O’Hare (University College Dublin, Ireland)

Reliability Analysis of Wireless Real-Time Control Networks
Peter Horvath (Vanderbilt University, USA); Mark Yampolskiy (Vanderbilt University, USA); Yuan Xue (Vanderbilt University, USA); Xenofon Koutsoukos (Vanderbilt University, USA); Janos Sztipanovits
**Controlled Path Traversal for a Mobile Element in Wireless Sensor Networks**
Baris Tas (University of Texas at San Antonio, USA); Ali Saman Tosun (University of Texas at San Antonio, USA)

**Internet, Network Protocols, and Performance (NAPE III)**

Room: Independence C
Chair: Paolo Valente (University of Modena and Reggio Emilia, Italy)

**Refining IP-to-AS Mappings for AS-level Traceroute**
Baobao Zhang (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Yangyang Wang (Tsinghua University, P.R. China); Yu Zhang (Harbin Institute of Technology, P.R. China); Jianping Wu (Tsinghua University, P.R. China)

**LMB: Towards Sufficient Utilization of Address and Port Resource against IPv4 Exhaustion**
Peng Wu (Tsinghua University, P.R. China); Yong Cui (Tsinghua University, P.R. China); Jianping Wu (Tsinghua University, P.R. China); Heyi Tang (Tsinghua University, P.R. China)

**Reachability Graph Based Hierarchical Test Generation for Network Protocols Modeled as Parallel Finite State Machines**
Jiangyuan Yao (Tsinghua University, P.R. China); Zhiliang Wang (Tsinghua University, P.R. China); Xia Yin (Tsinghua University, P.R. China); Xingang Shi (Tsinghua University, P.R. China); Jianping Wu (Tsinghua University, P.R. China)

**An Optimal Algorithm for Time-slot Assignment in SS/TDMA Satellite Systems**
Xili Wan (University of Missouri Kansas City, USA); Feng Shan (University of Missouri Kansas City, USA); Xiaojun Shen (University of Missouri-Kansas City, USA)

**Cognitive Radio Networks (CCHN I)**

Room: Arawak (A/B)
Chair: Xiaojun Cao (Georgia State University, Atlanta, GA, USA)

**Channel Detecting Jamming Attacks against Jump-Stay Based Channel Hopping Rendezvous Algorithms for Cognitive Radio Networks**

**Panel Discussion II**

Room: Independence B
Topic: Trends in Network Architecture
Moderator: Tilman Wolf, University of Massachusetts, Amherst, USA
Panelists:
- Rudra Dutta, North Carolina State University, USA
- Christos Papadopoulos, Colorado State University, USA
- Dipankar Raychaudhuri, Rutgers University, USA
- Dah Ming Chiu, The Chinese University, Hong Kong

**15:30—17:00**

**RFID and Ad Hoc Networks (LAMN II)**

Room: Independence B
Chair: Wei Lou (The Hong Kong Polytechnic University, Hong Kong)

**Steady Status Study of Distributed Data Caching in Ad Hoc Networks**
Julinda Taylor (Wichita State University, USA); Bin Tang (Azusa Pacific University, USA); Mehmet Yildirim (Wichita State University, USA)

**Reliable Closed-loop Control in Medical Cyber-Physical Systems over Wireless Ad-hoc Networks**
Tao Li (Hong Kong Polytechnic Univ., HongKong); and Jiannong Cao (Hong Kong Polytechnic Univ., HongKong)

**A Small Step for Hardware, A Giant Leap for VANET Security**

Lingbo Wei (Shanghai Jiaotong University, China); Chi Zhang (University of Science and Technology of China, China); Kefei Chen (Shanghai Jiaotong University, China); Bin Liu (University of Science and Technology of China, China); Jinyuan Sun (University of Tennessee-Knoxville, USA)

**A Fast Approach to Unknown Tag Identification in Large Scale RFID Systems**

Xiulong Liu (Dalian University of Technology, P.R. China); Keqiu Li (Dalian University of Technology, P.R. China); Yanning Shen (Dalian University of Technology, Dalian, P.R. China); Geyong Min (University of Bradford, United Kingdom); Bin Xiao (The Hong Kong Polytechnic University, Hong Kong); Wenyu Qu (Dalian Maritime University, P.R. China)

**Algorithm and Middleware (SEP II)**

**Room: Independence A**
**Chair: Peter Horvath (Vanderbilt University, USA)**

**Target-temporal Effective-sensing Coverage in Mission-driven Camera Sensor Networks**

Yi Hong (Renmin University of China, P.R. China); Donghyun Kim (North Carolina Central University, USA); Deying Li (Renmin University of China, P.R. China); Wenping Chen (Renmin University of China, P.R. China); Alade Tokuta (North Carolina Central University, USA); Zhiming Ding (Institute of Software, Chinese Academy of Sciences, P.R. China)

**Using Minimum Mobile Chargers to Keep Large-scale Wireless Rechargeable Sensor Networks Running Forever**

Haipeng Dai (Nanjing University & State Key Lab of Novel Software Technology, P.R. China); Xiaobing Wu (Nanjing University & State Key Lab of Novel Software Technology, P.R. China); Lijie Xu (Nanjing University, P.R. China); Guihai Chen (Shanghai Jiao Tong University, P.R. China); Shan Lin (Temple University, USA)

**A Mediation Layer for connecting Data-Intensive Applications to Reconfigurable Data Nodes**

Mohamad Jomaa (American University of Beirut, Lebanon); Khaleel W Mershad (American University of Beirut, Lebanon); Noor Abbani (American University of Beirut, Lebanon); Yaman Sharaf Dabbagh (American University of Beirut, Lebanon); Bashar Romanous (American University of Beirut, Lebanon); Hassan A. Artail (American University of Beirut, Lebanon); Mazen A. R. Saghir (Texas A&M University at Qatar, Qatar); Hazem Hajj (American University of Beirut, Lebanon); Haitham Akkary (American University of Beirut, Lebanon); Mariette Awad (AUB, Lebanon)

**On the Use of Distributed Beamforming to Increase Base Station Anonymity in Wireless Sensor Networks**

Jon R. Ward (The Johns Hopkins University, USA); Mohamed Younis (University of Maryland Baltimore County, USA)

**P2P and Content Distribution (NAPE IV)**

**Room: Independence C**
**Chair: Christopher Casey (Texas A&M University, USA)**

**A Social Network Integrated Reputation System for Cooperative P2P File Sharing**

Kang Chen (Clemson University, USA); Haiying Shen (Clemson University, USA); Karan Sapra (Clemson University, USA); Guoxin Liu (Clemson University, USA)

**Modeling Hierarchical Caches in Content-Centric Networks**

ZiXiao Jia (Tsinghua University, P.R. China); Peng Zhang (Tsinghua University, P.R. China); Jiwei Huang (Tsinghua University, P.R. China); Chuang Lin (Tsinghua University, P.R. China); John Chi Shing Lui (Chinese University of Hong Kong, Hong Kong)

**Probabilistic Analysis of Message Forwarding**

Louise E. Moser (University of California, Santa Barbara, USA); Michael Melliar-Smith (University of California, Santa Barbara, USA)

**Performance Model for a Cache Enabled Content Distribution Framework over MANET**

Yang Guo (Bell Labs, Alcatel-Lucent, USA); Lloyd Greenwald (LGS Innovations LLC, USA); Mary R Schurgot (LGS Innovations LLC, USA); Matteo Varvello (Bell Labs, Alcatel-Lucent, USA)
Resource Allocation (CCHN II)

Room: Arawak (A/B)
Chair: Hui Zang (Sprint, USA)

Resource Allocation in OFDMA Femto Networks
Debalina Ghosh (University of California at Davis, USA); Prasant Mohapatra (University of California, Davis, USA)

Energy-Efficient QoS Provisioning in Random Access Satellite NDMA Schemes
José Vieira (Universidade Nova de Lisboa, Portugal); Francisco Ganhão (Universidade Nova de Lisboa, Portugal); Luis Bernardo (Universidade Nova de Lisboa, Portugal); Rui Dinis (Instituto de Telecomunicacoes, Portugal); Marko Beko (ULHT/UNINOVA, Portugal); Rodolfo Oliveira (Universidade Nova de Lisboa/Uninova, Portugal); Paulo F Pinto (Universidade Nova de Lisboa, Portugal)

Reciprocity and Fairness in Medium Access Control Games
Mahdi Azarafrooz (Stevens Institute Of Technology, USA); Rajarathnam Chandramouli (Stevens Institute of Technology, USA); Koduvayur P Subbalakshmi (Stevens Institute of Technology, USA)

17:15—18:45

DTN and Miscellaneous Topics (LAMN III)

Room: Independence B
Chair: Chi Zhang (University of Science and Technology of China, China)

Energy-efficient Contact Probing in Opportunistic Mobile Networks
Huan Zhou (Zhejiang University, P.R. China); Huanyang Zheng (Temple University, USA); Jie Wu (Temple University, USA); Jiming Chen (Zhejiang University, P.R. China)

Making Nodes Cooperative: A Secure Incentive Mechanism for Message Forwarding in DTNs
Honglong Chen (China University of Petroleum, P.R. China); Wei Lou (The Hong Kong Polytechnic University, Hong Kong)

Social-aware Relay Node Selection in Delay Tolerant Networks
Kaimin Wei (Beihang University, China); Deze Zeng (The University of Aizu, Japan); Song Guo (The University of Aizu, Japan); and Ke Xu (Beihang University, China)

Network coding for multicasting over Rayleigh fading multi access channels
Avi Zanko (Bar-Ilan University, Israel); Amir Leshem (Bar-Ilan University, Israel); Ephraim Zehavi (Bar-Ilan University, Israel)

RFID, M2M Communications, and Social Sensing (SEP III+MCCN)

Room: Independence A
Chair: Liqiang Zhang (Indiana University South Bend, USA)

Efficient Protocols for Rule Checking in RFID Systems
Yafeng Yin (Nanjing University, P.R. China); Lei Xie (Nanjing University, P.R. China); Sanglu Lu (Nanjing University, P.R. China); Daoxu Chen (Nanjing University, P.R. China)

Machine-to-Machine Communication over TV White Spaces for Smart Metering Applications
Luca Bedogni (University of Bologna & Department of Computer Science, Italy); Angelo Trotta (University of Bologna, Italy); Marco Di Felice (University of Bologna, Italy); Luciano Bononi (University of Bologna, Italy)

MINERVA: Information-Centric Programming for Social Sensing
Shiguang Wang (University of Illinois at Urbana Champaign, USA); Shaohan Hu (University of Illinois at Urbana-Champaign, USA); Shen Li (University of Illinois at Urbana-Champaign, USA); Hengchang Liu (UIUC, USA); Md Yusuf Sarwar Uddin (University of Illinois at Urbana-Champaign, USA); Tarek Abdelzaher (University of Illinois, Urbana Champaign, USA)

Load Balancing by Ruleset Partition for Parallel IDS on Multi-Core Processors
Haiyang Jiang (Institute of Computing Technology, CAS, P.R. China); Gaogang Xie (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Kavé Salamatian (LISTIC PolyTech, Université de Savoie Chambery Annecy, France)

Multimedia and Networking (MRTM I+MCCN)

Room: Independence C
Chair: Yang Guo (Bell Labs, USA)

Measuring the Relationships between Internet Geography and RTT
Raul Landa (University College London), Richard G Clegg (University College London), João Taveira Araújo (University College London), Eleni Mykoniati (University College London), David Griffin (University College London)

Fast Queuing Policies for Multimedia Applications
Duong Nguyen-Huu (Oregon State University) Thai Duong (Oregon State University), Thinh Nguyen (Oregon State University)

Supporting Voice over LTE: Solutions, Architectures, and Protocols
Christopher Jasson Casey (Texas A&M University, USA); Srivatsan Rajagopalan (Qualcomm Inc., USA); Muxi Yan (Texas A&M University, USA); Graham Booker (Texas A&M University, USA); Alex Sprintson (Texas A&M University, USA); Walt Magnussen (Texas A&M University, USA)

Generic Real-Time Traffic Distribution Framework: Black Rider
Sandra Frei (University of Plymouth, United Kingdom); Woldemar Fuhrmann (University of Applied Sciences Darmstadt, Germany); Bogdan Ghita (University of Plymouth, United Kingdom)

Physical Layer, Cellular Networks and Cognitive Radios (CCHN III)

Room: Arawak (A/B)
Chair: Shiwen Mao (Auburn University, Auburn, AL, USA)

Analyzing and Modeling Temporal Patterns of Human Contacts in Cellular Networks
Hayang Kim (Georgia Institute of Technology, USA); Hui Zang (Sprint, USA); Xiaoli Ma (Georgia Institute of Technology, USA)

A Study of SNR Wall Phenomenon under Cooperative Energy Spectrum Sensing
Zejiao Li (University of Electronic and Science Technology of China, P.R. China); Xin Su (Tsinghua University, P.R. China); Jie Zeng (Tsinghua University, P.R. China); Yujun Kuang (University of Electronic Science and Technology of China, P.R. China); Haijun Wang (Tsinghua University, P.R. China)

CogWnet: A Resource Management Architecture for Cognitive Wireless Networks
Ismail AlQerm (KAUST, Saudi Arabia); Basem Shihada (KAUST, Saudi Arabia); Kang G. Shin (University of Michigan, USA)

Friday, August 2nd

8:30–10:15

Keynote III

Room: Independence B
Title: Next Steps towards Internet-optical Service Convergence: A Network Management Perspective
Speaker: Admela Jukan, Technische Universität Carolo-Wilhelmina zu Braunschweig (Brunswick), Germany
Chair: Christian Poellabauer, University of Notre Dame, USA

10:45—12:15

Invited Paper Session -III

Room: Independence B
Chair: Alhussein A. Abouzeid (Rensselaer Polytechnic Institute, USA)

Network Characterization and Perceptual Evaluation of Skype Mobile Videos
Shraboni Jana(University of California, Davis, USA); Amit Pande (University of California Davis, CA, USA); An Chan (Broadcom Corporation, USA); Prasant Mohapatra(University of California, Davis, USA)

Resource Allocation for Energy Efficient k-out-of-n System in Mobile Ad Hoc Networks
Chien-An Chen (Texas A&M University, USA); Myounggyu Won (Texas A&M University, USA); Radu Stoleru (Texas A&M University, USA); Geoffrey G Xie(Naval Postgraduate School, USA)

Throughput Enhancement for WDS-based WLANs
Jae-Pil Jeong (Pohang University of Science and Technology (POSTECH), Korea); Wan-Seon Lim (Pohang University of Science and Technology (POSTECH), Korea); Young-Joo Suh (Pohang University of Science and Technology (POSTECH), Korea)
Secure Verification of Location Claims on a Vehicular Safety Application
Wafa Ben Jaballah (University of Bordeaux 1, France); Mauro Conti (University of Padua, Italy); Mosbah Mohamed (University of Bordeaux 1 (Labri), France); Claudio E. Palazzi (University of Padua, Italy)

MOTAG: Moving Target Defense Against Internet Denial of Service Attacks
Quan Jia (George Mason University, USA); Kun Sun (George Mason University, USA); Angelos Stavrou (George Mason University, USA)

Towards A Cooperative Mechanism Based Distributed Source Address Filtering
Jie Li (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Jianping Wu (Tsinghua University, P.R. China)

Integration of Quantitative Methods for Risk Evaluation within Usage Control Policies
Leanid Krautsevich (IIT-CNR, Italy); Aliaksandr Lazouski (IIT-CNR, Italy); Fabio Martinelli (CNR-IIT, Italy); Paolo Mori (IIT, CNR, Italy); Artsiom Yautsiukhin (IIT-CNR, Italy)

EMC: The Effective Multi-path Caching Scheme for Named Data Networking
Hao Wu (Tsinghua University, China); Jun Li (Tsinghua University, China); Yi Wang (Tsinghua University, China); Bin Liu (Tsinghua University, China)

Routing and Name Resolution in Information-Centric Networks
Hang Liu (The Catholic University of America, USA); Dan Zhang (WINLAB, Rutgers University, USA)

13:30—15:00

Panel Discussion III
Room: Independence B

Topic: SDN and Network Virtualization
Moderator: Ilya Baldin, RENCI, USA
Panelists:
Kristin Raushenbach, BBN-Raytheon, USA
Gary Berger, Cisco, USA
Nick Bastin, Consultant, USA

15:30—17:00

Scalable, Reliable, and Energy-Efficient Networks (SREN I)

Room: Independence B
Chair: Luiz F. Bittencourt (University of Campinas, Brazil)

A Virtual Network Allocation Algorithm for Reliability Negotiation
Rafael Gomes (State University of Campinas, Brazil); Luiz F. Bittencourt (University of Campinas, Brazil); Edmundo Madeira (State University of Campinas, Brazil)

A Novel Architecture for the Distribution Section of Smart Grid with Renewable Sources and Power Storage
Qi Wang (University of Trento, Italy); Raul Palacios (University of Trento, Italy); Fabrizio Granelli (University of Trento, Italy)

Profiling and Improving I/O Performance of a Large-Scale Climate Scientific Application
Zhuo Liu (Auburn University, USA); Bin Wang (Auburn University, USA); Teng Wang (Auburn University, USA); Yuan Tian (University of Tennessee, USA); Cong Xu (Auburn University, USA); Yandong Wang (Auburn University, USA)
Improving the Network Energy Efficiency in MapReduce Systems
Lin Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Fa Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhiyong Liu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)

Security, Privacy, and Trust II (SPT II)

Room: Independence A
Chair: Jun Bi (Tsinghua University, P.R. China)

On Scaling Perturbation Based Privacy-preserving Schemes in Smart Metering Systems
Xuebin Ren (Xi'an Jiaotong University, P.R. China); Wei Yu (Towson University, USA); Xinyu Yang (Xi'an Jiaotong University, P.R. China); Jie Lin (Xi'an Jiaotong University, P.R. China); Qingyu Yang (Xi'an Jiaotong University, P.R. China)

Concluding Remarks
Room: Independence B
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