

# ICNP 2011 PROGRAM

**Tuesday, October 18**

<b>8:30 – 8:45 AM</b>	<b>Welcome from the Chairs</b>
<b>8:45 - 10:00 AM</b>	<b>Keynote Talk: Mobile applications, advertising and data. Ravi Jain (Google)</b>
<b>10:30AM - 12:10PM</b>	<p><b>Network Design and Routing Protocols.</b>  <b>Session Chair: Timothy Griffin (University of Cambridge)</b></p> <ul style="list-style-type: none"> <li>* Scalable Routing Easy as PIE: a Practical Isometric Embedding Protocol Julien Herzen (EPFL, Switzerland); Cedric Westphal (Docomo Labs USA, USA); Patrick Thiran (EPFL, Switzerland)</li> <li>* Characterization and Design of Effective BGP AS-PATH Prepending Ying Zhang (Ericsson Research, USA); Mallikarjun Tatipamula (Cisco Systems, Inc., USA)</li> <li>* Inferring a Network Congestion Map with Zero Traffic Overhead Florin Dinu (Rice University, USA); T. S. Eugene Ng (Rice University, USA)</li> <li>* Generalized Graph Products for Network Design and Analysis Eric Parsonage (University of Adelaide, Australia); Hung Xuan Nguyen (University of Adelaide, Australia); Rhys Bowden (University of Adelaide, Australia); Simon Knight (University of Adelaide, Australia); Nickolas J Falkner (University of Adelaide &amp; The University of Adelaide, Australia); Matthew Roughan (University of Adelaide, Australia)</li> </ul>
<b>1:30 PM - 2:45 PM</b>	<p><b>Sensor Networks</b>  <b>Session Chair: Ben Leong (National University of Singapore)</b></p> <ul style="list-style-type: none"> <li>* Link Quality Aware Code Dissemination in Wireless Sensor Networks Wei Dong (Zhejiang University, P.R. China); Yunhao Liu (Hong Kong University of Science and Technology, Hong Kong); Chao Wang (Beijing University of Posts and Telecommunications, P.R. China); Xue Liu (McGill University, Canada); Chun Chen (Zhejiang University, P.R. China); Jiajun Bu (Zhejiang University, P.R. China)</li> <li>* Efficient and Fast Distributed Top-k Query Protocol in Wireless Sensor Networks Shao-Jie Tang (Illinois Institute of Technology, USA); Xufei Mao (Tsinghua University, P.R. China); Xiang-Yang Li (Illinois Institute of Technology, USA)</li> <li>* Geocast for Wireless Sensor Networks Rajesh Krishna Panta (AT&amp;T Labs Research, USA); Robert J Hall (AT&amp;T Labs Research, USA); Josh Auzins (AT&amp;T Labs Research, USA); Maria Fernandez Fernandez (AT&amp;T Labs Research, USA)</li> </ul>
<b>2:45 PM - 4:00 PM</b>	<p><b>Poster Session</b>  <b>Session Chairs: Ben Leong, National University of Singapore &amp; Wensheng Zhang, Iowa State</b></p> <ul style="list-style-type: none"> <li>* REPICK: Random Access MAC with Reversed Contention and Piggy-backed ACK Xiaojun Feng (Hong Kong University of Science and Technology, Hong Kong); Jin Zhang (Hong Kong University of Science and Technology, P.R. China); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong); Bo Li (Hong Kong University of Science and Technology, Hong Kong)</li> <li>* Understanding and Mitigating TCP Starvation in 802.11 Wireless Mesh Networks Wei Wang (National University of Singapore, Singapore); Ben Leong (National University of Singapore, Singapore); Wei Tsang Ooi (National University of Singapore, Singapore)</li> <li>* IPv6 Evolution, Stability and Deployment Xiaoke Jiang (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Yangyang Wang (Tsinghua University, P.R. China); Zhijie He (Tsinghua University, P.R. China); Wei Zhang (Tsinghua University, P.R. China); Hongcheng Tian (Tsinghua University, P.R. China)</li> <li>* TUNIE: A Virtualized Platform for Network Experiment on Programmable Infrastructure Yong Li (Tsinghua University, P.R. China); Li Su (Tsinghua University, P.R. China); Depeng Jin (Tsinghua University, P.R. China); Lieguang Zeng (Tsinghua University, P.R. China)</li> </ul>

	<p><b>Poster Session (continued)</b></p> <ul style="list-style-type: none"> <li>* Probabilistic Verification of BGP Convergence Soroush Haeri (Simon Fraser University, Canada); Dario KreÅiÄ† (University of Zagreb, Croatia); Ljiljana TrajkoviÄ† (Simon Fraser University, Canada)</li> <li>* EasyTrace: An Easily-Deployable Light-Weight IP Traceback on an AS-Level Overlay Network Hongcheng Tian (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Wei Zhang (Tsinghua University, P.R. China); Xiaoke Jiang (Tsinghua University, P.R. China)</li> <li>* Gaming Over COPSS: A Content Centric Communication Infrastructure for Gaming Applications Jiachen Chen (University of Goettingen, Germany); Mayutan Arumaiturai (NEC Europe Ltd., Germany); Xiaoming Fu (University of Goettingen, Germany); K. K. Ramakrishnan (AT&amp;T Labs - Research, USA)</li> <li>* Real-time Netshuffle: Graph Distortion for On-line Anonymization Ruma R. Paul (Washington State University, USA); Victor C. Valgenti (Washington State University, USA); Min Sik Kim (Washington State University, USA)</li> <li>* Striking the Balance Between Content Diversity and Content Importance in Swarm-Based P2P Streaming Chun-Yuan Chang (National Taiwan University, Taiwan); Cheng-Fu Chou (NTU, Taiwan); Ming-Hung Chen (National Taiwan University, Taiwan)</li> <li>* AIDR: Aggregation of BGP Routing Table with ASPath Stretch Yangyang Wang (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Jianping Wu (Tsinghua University, P.R. China)</li> <li>* Self-organizing TDMA for Multihop Networks Laura Feeney (Swedish Institute of Computer Science &amp; Uppsala University, Sweden)</li> <li>* OpenRouter: OpenFlow Extension and Implementation Based on a Commercial Router Tao Feng (Tsinghua University, P.R. China); Jun Bi (Tsinghua University, P.R. China); Hongyu Hu (Tsinghua University, P.R. China)</li> </ul>
<p><b>4:00 PM - 5:40 PM</b></p>	<p><b>Security and Privacy Protocols</b> <b>Session Chair: Ken Calvert (University of Kentucky)</b></p> <ul style="list-style-type: none"> <li>* Network Fault Localization with Small TCB Xin Zhang (Carnegie Mellon University, USA); Zongwei Zhou (Carnegie Mellon University, USA); Geoff Hasker (Carnegie Mellon University, USA); Adrian Perrig (Carnegie Mellon University, USA); Virgil Gligor (Carnegie Mellon University, USA)</li> <li>* Privacy-Preserving Cross-Domain Network Reachability Quantification Fei Chen (Michigan State University, USA); Bruhadeshwar Bezawada (International Institute of Information Technology, India); Alex X. Liu (Michigan State University, USA)</li> <li>* EphPub: Toward Robust Ephemeral Publishing Claude Castelluccia (INRIA, France); Emiliano De Cristofaro (University of California, Irvine, USA); Aurelien Francillon (ETH Zurich, Switzerland); Mohamed Ali Kaafar (INRIA, France)</li> <li>* Efficient Data Capturing for Network Forensics in Cognitive Radio Networks Shaxun Chen (University of California, Davis, USA); Kai Zeng (University of Michigan - Dearborn, USA); Prasant Mohapatra (University of California, Davis, USA)</li> </ul>
<p><b>7:00 PM</b></p>	<p><b>Banquet</b></p>

## Wednesday, October 19

<p><b>8:30 AM - 10:10 AM</b></p>	<p><b>Wireless Networks. Session Chair: Kai Zeng (University of Michigan)</b></p> <ul style="list-style-type: none"> <li>* What is Wrong/Right with IEEE 802.11N Spatial Multiplexing Power Save Feature? Ioannis Pefkianakis (UCLA, USA); Chi-Yu Li (UCLA, USA); Songwu Lu (UCLA, USA)</li> <li>* The Case for Addressing the Limiting Impact of Interference on Wireless Scheduling Xin Che (WSU, USA); Xi Ju (WSU, USA); Hongwei Zhang (WSU, USA)</li> <li>* Win-Coupon: An Incentive Framework for 3G Traffic Offloading Xuejun Zhuo (Tsinghua University, P.R. China); Wei Gao (Pennsylvania State University, USA); Guohong Cao (Pennsylvania State University, USA); Yiqi Dai (Tsinghua University, P.R. China)</li> <li>* Out-of-Band Sensing with ZigBee for Dynamic Channel Assignment in On-the-Move Hotspots Jaehyuk Choi (University of Michigan, USA); Kang G. Shin (University of Michigan, USA)</li> </ul>
<p><b>10:40AM - 12:00PM</b></p>	<p><b>Panel Discussion: TV Band White Spaces: From Research Project to Market Opportunity?</b>  <b>Moderator: Paul Garnett (Director Technology Policy, Microsoft)</b>  <b>Panelists: Kevin Almeroth (CS Department, UC Santa Barbara),  Ilkka Niva (Office of the CTO, Nokia), Alan Norman (Access Strategy, Google)</b></p>
<p><b>1:30 PM - 2:45 PM</b></p>	<p><b>Data Distribution and Streaming. Session Chair: Teruo Higashino (Osaka University)</b></p> <ul style="list-style-type: none"> <li>* Global Optimization of File Availability Through Replication for Efficient File Sharing in MANETs Kang Chen (Clemson University, USA); Haiying Shen (Clemson University, USA)</li> <li>* Contact Duration Aware Data Replication in Delay Tolerant Networks Xuejun Zhuo (Tsinghua University, P.R. China); Qinghua Li (Pennsylvania State University, USA); Wei Gao (Pennsylvania State University, USA); Guohong Cao (Pennsylvania State University, USA); Yiqi Dai (Tsinghua University, P.R. China)</li> <li>* A Case for Coalitions in Data Swarming Systems Honggang Zhang (Suffolk University, USA); Sudarshan Vasudevan (Bell Labs, Alcatel-Lucent, USA); Ran Li (Suffolk University, USA); Don Towsley (University of Massachusetts at Amherst, USA)</li> </ul>
<p><b>3:15 PM - 4:30 PM</b></p>	<p><b>Cloud Computing and CDN. Session Chair: Jun Bi (Tsinghua University)</b></p> <ul style="list-style-type: none"> <li>* Building Mega Data Center From Heterogeneous Containers Dan Li (Tsinghua University, P.R. China); Mingwei Xu (Tsinghua University, P.R. China); Hongze Zhao (Tsinghua University, P.R. China); Xiaoming Fu (University of Goettingen, Germany)</li> <li>* Scalable Data Center Multicast Using Multi-class Bloom Filter Dan Li (Tsinghua University, P.R. China); Henggang Cui (Tsinghua University, P.R. China); Yan Hu (NEC, P.R. China); Yong Xia (NEC Lab China, P.R. China); Xin Wang (Stony Brook University, USA)</li> <li>* Analysis of Adaptive Streaming for Hybrid CDN/P2P Live Video Systems Ahmed Mansy (Georgia Tech, USA); Mostafa Ammar (Georgia Institute of Technology, USA)</li> </ul>
<p><b>5:00 PM - 6:30 PM</b></p>	<p><b>PhD Forum. Session Chair: Chair: Xiaoming Fu (Georg-August-University)</b></p> <ul style="list-style-type: none"> <li>* Impact of Mobility on User-centric Routing Namusale Chama (SITI, University Lusofona, Portugal); Rute C. Sofia (SITI, Universidade Lusãfona, Portugal); Susana Sargento (Instituto de Telecomunicações, Universidade de Aveiro, Portugal)</li> <li>* Improving Mobile Networks Based on Social Mobility Modeling Andrea G Ribeiro (SITI, University Lusofona, Portugal); Rute C. Sofia (SITI, Universidade Lusãfona, Portugal); Andrã V. Zãquete (University of Aveiro, Portugal)</li> <li>* Internet Exchange Points and Internet Routing Mohammad Z Ahmad (University of Central FL, USA); Ratan Guha (University of Central FL, USA)</li> <li>* Energy-efficient Routing Antonio Oliveira Junior (SITI, Universidade Lusãfona, Portugal); Rute C. Sofia (SITI, Universidade Lusãfona, Portugal); Antonio L D Costa (Universidade do Minho &amp; ALGORITMI, Portugal)</li> <li>* On the Scalability of Source Routing Architectures Onur Ascigil (University of Kentucky, USA)</li> </ul>

## Thursday, October 20

<b>8:30 - 10:10 AM</b>	<b>Wireless LANs</b> <b>Session Chair: Guiling Wang (NJIT)</b> <ul style="list-style-type: none"><li>* Sidekick: AP Aggregation Over Partially Overlapping Channels Eugene Chai (University of Michigan, USA); Kang G. Shin (University of Michigan, USA)</li><li>* Adaptive Subcarrier Nulling: Enabling Partial Spectrum Sharing in Wireless LANs Xinyu Zhang (University of Michigan, USA); Kang G. Shin (University of Michigan, USA)</li><li>* Video-Aware Rate Adaptation for MIMO WLANs An Chan (University of California, Davis, USA); Henrik Lundgren (Technicolor, France); Theodoros Salonidis (Technicolor, France)</li><li>* A Practical Approach to Rate Adaptation for Multi-Antenna Systems Duy D Nguyen (University of California, Santa Cruz, USA); Jj Garcia-Luna-Aceves (University of California at Santa Cruz, USA)</li></ul>
<b>10:40AM - 12:00PM</b>	<b>Panel Discussion: Hot Topics for ICNP 2012!</b> <b>Moderator: Moderator: K. K. Ramakrishnan (AT&amp;T Labs - Research)</b> <b>Panelists: Mostafa Ammar, Georgia Institute of Technology</b> <b>David Lee, HP Labs</b> <b>Timothy G. Griffin, University of Cambridge</b> <b>Toru Hasegawa, KDDI R&amp;D Labs</b>
<b>1:30 PM - 2:20 PM</b>	<b>Transport Layer Protocols</b> <b>Session Chair: Ana Calvalli (INT Evry)</b> <ul style="list-style-type: none"><li>* Dynamic Window Coupling for Multipath Congestion Control Sofiane Hassayoun (Institut TELECOM / TELECOM Bretagne, France); Janardhan Iyengar (Franklin and Marshall College, USA); David Ros (Institut TELECOM / TELECOM Bretagne, France)</li><li>* Moving Bits From 3G to Metro-scale Wifi for Vehicular Network Access: an Integrated Transport Layer Solution Xiaoxiao Hou (Stony Brook University, USA); Pralhad Deshpande (Stony Brook University, USA); Samir R. Das (Stony Brook University, USA)</li></ul>
<b>2:50 PM - 4:30 PM</b>	<b>Wireless and Sensor Networks</b> <b>Session Chair: Laura Marie Feeney (Swedish Institute of C.S.)</b> <ul style="list-style-type: none"><li>* Fast Tag Searching Protocol for Large-Scale RFID Systems Yuanqing Zheng (Nanyang Technological University, Singapore); Mo Li (Nanyang Technological University, Singapore)</li><li>* J-RoC: a Joint Routing and Charging Scheme to Prolong Sensor Network Lifetime Zi Li (Iowa State University, USA); Yang Peng (Iowa State University, USA); Wensheng Zhang (Iowa State University, USA); Daji Qiao (Iowa State University, USA)</li><li>* Correlated Flooding in Low-Duty-Cycle Wireless Sensor Networks Shuo Guo (University of Minnesota, USA); Song Min Kim (University of Minnesota, USA); Ting Zhu (University of Massachusetts Amherst, USA); Yu Gu (Singapore University of Technology and Design &amp; Advanced Digital Sciences Center, University of Illinois, Urbana-Champaign, Singapore); Tian He (University of Minnesota, USA)</li><li>* Anti-jamming Communication in Cognitive Radio Networks with Unknown Channel Statistics Qian Wang (Illinois Institute of Technology, USA); Kui Ren (Illinois Institute of Technology, USA); Peng Ning (North Carolina State University, USA)</li></ul>