

IFIP Networking 2013 Conference
22nd May 2013 - 24th May 2013
Preliminary Program



May 22nd, Wednesday

8:30 am - Breakfast

9:00 am- Keynote Speaker - 1

10:00 am - One Minute Madness

10:30 am - 12:00 pm - Parallel Session

Session A1 - Naming and Services	Session B1 - Measurement - I
<p>1. FERN: A Unifying Framework For Name Resolution Across Heterogeneous Architectures <i>Spencer Sevilla (University of California, Santa Cruz, USA); Priya Mahadevan (PARC, USA); Jj Garcia-Luna-Aceves (University of California at Santa Cruz, USA).</i></p> <p>2. H-Tree: An Efficient Index Structure for Event Matching in Publish/Subscribe Systems <i>Shiyou Qian (Shanghai Jiao Tong University, P.R. China); Jian Cao (Shanghai Jiaotong University, P.R. China); Yanmin Zhu (Shanghai Jiao Tong University, P.R. China); Minglu Li (Shanghai Jiao Tong University, P.R. China); Jie Wang (Stanford University, USA).</i></p> <p>3. Samaritan Cloud: Secure and Scalable Infrastructure for enabling Location-based Services <i>Abhishek Samanta (Northeastern University, USA); Ravi Sundaram (Northeastern University, USA); Fangfei Zhou (Northeastern University, USA).</i></p>	<p>1. CobWeb: In-Network Cobbling of Web Traffic <i>Hitesh Khandelwal (Purdue University, USA); Fang Hao (Bell Labs, Alcatel-Lucent, USA); Sarit Mukherjee (Bell Labs USA, USA); Ramana Rao Kompella (Purdue University, USA); T. V. Lakshman (Bell Labs, Alcatel-Lucent, USA).</i></p> <p>2. ReSurf: Reconstructing Web-Surfing Activity From Network Traffic <i>Guowu Xie (University of California, Riverside, USA); Marios Iliofotou (Narus, Inc, USA); Thomas Karagiannis (Microsoft Research, United Kingdom); Michalis Faloutsos (University of California, Riverside, USA); Yaohui Jin (Shanghai Jiaotong University, P.R. China).</i></p> <p>3. Estimating Traffic Correlations from Sampling and Active Network Probing <i>Amr Rizk (Leibniz Universität Hannover, Germany); Zdravko Bozakov (Leibniz Universität Hannover, Germany); Markus H Fidler (Leibniz Universität Hannover, Germany).</i></p>

12:00 pm - 01:30 pm - Lunch Break

01:30 pm- 03:30 pm - Parallel Session

Session A2 - ICN	Session B2 - P2P
<p>1. Interest Flooding Attack and Countermeasures in Named Data Networking <i>Alexander Afanasyev (University of</i></p>	<p>1. Spatial and Temporal Locality of Content in BitTorrent: A Measurement Study <i>Taejoong Chung (Seoul National University, Korea); Jinyoung Han (Seou National</i></p>

<p>California, Los Angeles, USA); Priya Mahadevan (PARC, USA); Ilya Moiseenko (University of California, Los Angeles, USA); Ersin Uzun (PARC, USA); Lixia Zhang (University of California at Los Angeles, USA)</p> <p>2. Implementation and Evaluation of an Information-Centric Network George Parisi (University of Cambridge, United Kingdom); Dirk Trossen (University of Cambridge, United Kingdom); Dimitris Syrivelis (University of Thessaly, Greece).</p> <p>3. Pricing in Information-Centric Network Interconnection Tuan-Minh Pham (UPMC Sorbonne Universités, France); Serge Fdida (UPMC Sorbonne Universités, France); Panayotis Antoniadis (ETH Zurich, Switzerland).</p> <p>4. Lessons from the Past: Why Data-driven States Harm Future Information-Centric Networking Matthias Wählisch (Freie Universität Berlin, Germany); Thomas C. Schmidt (Hamburg University of Applied Sciences, Germany); Markus Vahlenkamp (Hochschule für Angewandte Wissenschaften Hamburg, Germany).</p>	<p>University, Korea); Hojin Lee (KAIST, Korea); Jussi Kangasharju (University of Helsinki, Finland); Taekyoung Kwon (Seoul National University, Korea); Yanghee Choi (Seoul National University, Korea).</p> <p>2. Open2Edit: a peer-to-peer platform for collaboration Nicolaas Zeilemaker (Delft University of Technology, The Netherlands); Mihai Capotă (Delft University of Technology, The Netherlands); Johan A. Pouwelse (Delft University of Technology, The Netherlands).</p> <p>3. Balance Visual Saliency, Reusability and Potential Relevance for Caching P2P 3D Streaming Contents Wei Wang (School of Electronics and Information Engineering Tongji (University, P.R. China); Jinyuan Jia (Tongji University, P.R. China); Xiaojun Hei (Huazhong University of Science and Technology, P.R. China).</p> <p>4. Entelecheia: Detecting P2P Botnets in their Waiting Stage Huy Hang (University of California, Riverside, USA); Xuetao Wei (UC, Riverside, USA); Michalis Faloutsos (University of California, Riverside, USA); Tina Eliassi-Rad (Rutgers University, USA).</p>
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03:30 pm - 03:45 pm Coffee Break

03:45 pm - 05:45 pm - Parallel Session

<p style="text-align: center;">Session A3 - Cellular</p> <p>1. Understanding the Complexity of 3G UMTS Network Performance Yingying Chen (University of Minnesota - Twin Cities, USA); Nick Duffield (AT&T Labs - Research, USA); Patrick Haffner (AT&T, USA); Wen-Ling Hsu (AT&T Labs, USA); Guy Jacobson (AT&T Labs, USA); Yu Jin (AT&T Labs Research, USA); Subhabrata Sen (AT&T Labs - Research, USA); Shobha Venkataraman (AT&T Research, USA); Zhi-Li Zhang (University of Minnesota, USA).</p>	<p style="text-align: center;">Session B3 - Network Robustness</p> <p>1. Routing with Joker Links for Maximized Robustness Hung Quoc Vo (Simula Research Laboratory, Norway); Olav Lysne (Simula Research Laboratory, Norway); Amund Kvalbein (Simula Research Laboratory, Norway).</p> <p>2. Critical regions and region-disjoint paths in a network Stojan Trajanovski (Delft University of Technology, The Netherlands); Fernando A.</p>
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<p>2. Characterizing High-frequency Subscriber Sessions in Cellular Data Networks <i>Jingtao Li (Fudan University, P.R. China); Wengang Pei (Fudan University, P.R. China); Zhen Cao (Fudan University, P.R. China).</i></p> <p>3. Energy-efficient Subcarrier Allocation in SC-FDMA Wireless Networks based on Multilateral Model of Bargaining <i>Eirini Eleni Tsiropoulou (National Technical University of Athens/Institute of Comm. and Comp. Systems, Greece); Aggelos Kapoukakis (National Technical University of Athens, Greece); Symeon Papavassiliou (National Technical University of Athens, Greece).</i></p> <p>4. Spectrum-aware Radio Resource Management for scalable video multicast in LTE-Advanced Systems <i>Rajarajan Sivaraj (University of California, Davis, USA); Amit Pande (University of California Davis, CA, USA); Prasant Mohapatra (University of California, Davis, USA).</i></p>	<p><i>Kuipers (Delft University of Technology, The Netherlands); Piet Van Mieghem (Delft University of Technology, The Netherlands); Aleksandar Ilić (Facebook Inc., USA); Jon Crowcroft (University of Cambridge, United Kingdom).</i></p> <p>3. Adaptive Failure Detection Timers for IGP Networks <i>Bruno Vidalenc (Alcatel-Lucent Bell Labs France, France); Ludovic Noirie (Alcatel-Lucent France, France); Samir Ghamri-Doudane (Alcatel-Lucent Bell Labs France, France); Eric Renault (TELECOM & Management SudParis (ex GET-INT), France).</i></p> <p>4. p-Cycle-Based Node Failure Protection for Survivable Virtual Network Embedding" <i>Abdallah Jarray (University of Ottawa, Canada); Yihong Song (University of Ottawa, Canada); Ahmed Karmouch (University of Ottawa, Canada).</i></p>
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May 23rd, Thursday

8:30 am - Breakfast

9:00 am- Keynote Speaker - 2

10:00 am - One Minute Madness

10:00 am - 12:00 pm - Parallel Session

Session A4 - TCP and Hardware	Session B4 - Measurement - II
<p>1. Edge versus Host Pacing of TCP Traffic in Small Buffer Networks <i>Hassan Habibi Gharakheili (University of New South Wales, Australia); Arun Vishwanath (University of Melbourne, Australia); Vijay Sivaraman (University of New South Wales, Australia).</i></p> <p>2. (Deployable) Reduction of Multicast State with In-packet Bloom Filters <i>Petri Jokela (Ericsson, Finland); Heikki Mahkonen (Ericsson, Finland); Christian</i></p>	<p>1. A Multi-Level Approach for Evaluating Internet Topology Generators <i>Ryan Rossi (Purdue University, USA); Sonia Fahmy (Purdue University, USA); Nilothpal Talukder (Purdue University, USA).</i></p> <p>2. Improving IP Geolocation by Crawling the Internet PoP Level Graph <i>Yuval Shavitt (Tel-Aviv University, Israel); Noa Zilberman (Tel-Aviv University, Israel).</i></p> <p>3. The Large-Scale Geography of Internet</p>

Esteve Rothenberg (CPqD, Brazil); Joerg Ott (Aalto University, Finland).

3. Switch Reduce: Reducing Switch State and Controller Involvement in OpenFlow Networks

Aakash Iyer (IBM Research - India, India); Vijay Mann (IBM Research, New Delhi, India); Naga Rohit Samineni (Indian Institute of Technology Guwahati, India).

Round Trip Times

Raul Landa (University College London, United Kingdom); João Taveira Araújo (University College London, United Kingdom); Eleni Mykoniati (University College London, United Kingdom); Richard G Clegg (University College London, United Kingdom); David Griffin (University College London, United Kingdom); Miguel Rio (UCL, United Kingdom).

12:00 pm - 01:30 pm - Lunch Break

01:30 pm - 03:30 pm - Parallel Session

Session A5 - Trust and Security

1. A Network Science Perspective of a Distributed Reputation Mechanism

Rahim Delaviz Aghbolagh (Delft University of Technology, The Netherlands); Nicolaas Zeilemaker (Delft University of Technology, The Netherlands); Johan A. Pouwelse (Delft University of Technology, The Netherlands); Dick Epema (Delft University of Technology, The Netherlands).

2. On A Way to Improve Cyber-Insurer Profits: When A Security Vendor Becomes the Cyber-Insurer

Ranjan Pal (University of Southern California, USA); Konstantinos Psounis (University of Southern California, USA); Leana Golubchik (USC, USA); Pan Hui (Deutsche Telekom Laboratories, Germany).

3. End-to-end transport-layer security for Internet-integrated sensing applications with mutual and delegated ECC public-key authentication

Jorge Granjal (University of Coimbra, Polo 2, Portugal); Edmundo Monteiro (University of Coimbra, Portugal); Jorge Sá Silva (University of Coimbra, Portugal).

4. Trust-based Grouping for Cloud Datacenters: improving security in shared infrastructures

Daniel Stefani Marcon (Federal University of Rio Grande do Sul, Brazil); Rodrigo Ruas

Session B5 - Load Balancing and TE

1. On the efficiency of non-cooperative load-balancing

Josu Doncel (LAAS-CNRS, France); Urtzi Ayesta (CNRS-LAAS and Ikerbasque-University of the Basque Country, Spain); Olivier Brun (Laboratoire d'Analyse et d'Architecture des Systemes, France); Balakrishna Prabhu (LAAS-CNRS, France).

2. Green IGP Link Weights for Energy-Efficiency and Load-balancing in IP Backbone Networks

Frederic Francois (University of Surrey, United Kingdom); Ning Wang (University of Surrey, United Kingdom); Klaus Moessner (University of Surrey, United Kingdom); Stylianos Georgoulas (University of Surrey, United Kingdom); Ke Xu (Tsinghua University, P.R. China).

3. Optimal OSPF Traffic Engineering using Legacy Equal Cost Multipath Load Balancing

Krisztián Németh (Budapest University of Technology and Economics, Hungary); Attila Kőrösi (Budapest University of Technology and Economics, Hungary); Gábor Rétvári (Budapest University of Technology and Economics, Hungary).

4. Efficient Traffic Matrix Estimation for Data Center Networks

Oliveira (Federal University of Rio Grande do Sul (UFRGS), Brazil); Miguel Neves (Federal University of Rio Grande do Sul (UFRGS), Brazil); Luciana Salete Buriol (Federal University of Rio Grande do Sul, Brazil); Luciano Paschoal Gaspar (Federal University of Rio Grande do Sul, Brazil); Marinho P. Barcellos (Federal University of Rio Grande do Sul, Brazil).

Yan Qiao (Nanyang Technological University, Singapore); Zhiming Hu (Nanyang Technological University, Singapore); Jun Luo (Nanyang Technological University, Singapore).

03:30 pm - 04:00 pm Coffee Break
 04:00 pm - 05:30 pm - Panel Session

May 24th, Friday

8:30 am - Breakfast
 9:00 am- Keynote Speaker - 3
 10:00 am - One Minute Madness
 10:00 am - 12:00 am - Parallel Session

Session A6 - Network Virtualization	Session B6 - Measurement - III
<p>1. Multi-Domain Virtual Network Embedding with Limited Information Disclosure <i>David Dietrich (Leibniz Universität Hannover, Germany); Amr Rizk (Leibniz Universität Hannover, Germany); Panagiotis Papadimitriou (Leibniz University of Hannover, Germany).</i></p> <p>2. A General Distributed Approach to Slice Embedding with Guarantees <i>Flavio Esposito (Boston University, USA); Donato Di Paola (National Research Council (C.N.R.), Italy); Ibrahim Matta (Boston University, USA).</i></p> <p>3. Design and Analysis of Schedules for Virtual Network Migration <i>Samantha Lo (Georgia Institute of Technology, USA); Mostafa Ammar (Georgia Institute of Technology, USA); Ellen Zegura (Georgia Institute of Technology, USA).</i></p>	<p>1. Gaussian Traffic Revisited <i>Ricardo de O. Schmidt (University of Twente, The Netherlands); Ramin Sadre (Aalborg University, Denmark); Aiko Pras (University of Twente, The Netherlands).</i></p> <p>2. SANTACLASS: A Self Adaptive Network Traffic Classification System <i>Alok Tongaonkar (Narus Inc, USA); Ram Keralapura (Narus, USA); Antonio Nucci (Narus inc., USA).</i></p> <p>3. Adaptive Load-Aware Sampling for Network Monitoring on Multicore Commodity Hardware <i>Lothar Braun (Technische Universität München, Germany); Cornelius Diekmann (Technische Universität München, Germany); Nils Kammenhuber (Technische Universität München, Germany); Georg Carle (Technische Universität München, Germany).</i></p>

12:00 pm - 01:30 pm - Lunch Break

01:30 pm - 03:30 pm - Parallel Session

Session A7- Wireless	Session B7 - Data and Modeling
<p>1. Comparing Underwater MAC Protocols in Real Sea Experiment <i>Lina Pu (University of Connecticut, USA); Yu Luo (University of Connecticut, USA); Haining Mo(University of Connecticut,USA); Zheng Peng (University of Connecticut,USA); Jun-Hong Cui (University of Connecticut, USA); Zaihan Jiang (U.S. Naval Research Lab, USA).</i></p> <p>2. Fast Wireless Protocol: A Network Stack Design for Wireless Transmission <i>Daniel M. Havey (University of California in Santa Barbara, USA); Kevin C Almeroth (University of California, Santa Barbara, USA).</i></p> <p>3. A Reliable, Traffic-adaptive and Energy-efficient Link Layer for Wireless Sensor Networks <i>Markus Anwander (University of Bern, Switzerland); Torsten Ingo Braun (University of Bern, Switzerland).</i></p> <p>4. The price of evolution in incremental network design: The case of mesh networks <i>Saeideh Bakhshi (Georgia Institute of Technology, USA); Constantine Dovrolis (Georgia Institute of Technology, USA).</i></p>	<p>1. Modeling the guaranteed delivery of bulk data <i>Mauro Femminella (University of Perugia, Italy); Gianluca Reali (University of Perugia, Italy); Roberto Francescangeli (Columbia University, USA).</i></p> <p>2. Reducing Communication Overhead for Average Consensus <i>Mahmoud El Chamie (INRIA Sophia Antipolis, France); Giovanni Neglia (INRIA Sophia Antipolis, France); Konstantin Avrachenkov (INRIA Sophia Antipolis, France).</i></p> <p>3. Data Transfer Paradigms for Future Networks: Fountain Coding or Congestion Control? <i>Sándor Molnár (Budapest University of Technology and Economics, Hungary); Zoltán Móczár (Budapest University of Technology and Economics, Hungary); András Temesváry (Budapest University of Technology and Economics, Hungary); Balázs Sonkoly (Budapest University of Technology and Economics, Hungary); Szilárd Solymos (Budapest University of Technology and Economics, Hungary); Tamás Csicsics (Budapest University of Technology and Economics, Hungary).</i></p> <p>4. Socially Aware Data Partitioning for Distributed Storage of Social Data <i>Duc A. Tran (University of Massachusetts Boston, USA); Ting Zhang (University of Massachusetts, USA);</i></p>

03:30 pm - 04:00 pm Coffee Break

04:00 pm - 05:30 pm - Panel Session