IMC 2014 Program with Session Timings

Blue -- long papers -- 25 mins (including questions)
Green -- short papers -- 15 mins (including questions)

Day 1 (Wed)

08:45-09:00 Welcome by General Chair and Program co-chairs, and awards.

9:00-10:20am (80min) Interdomain routing and traffic

"Internet Inter-Domain Traffic Estimation for the Outsider"
Mario A. Sanchez (Northwestern University), Fabian E. Bustamante (Northwestern University), Balachander Krishnamurthy (AT&T Labs Research), Walter Willinger (Nisun), Georgios Smaragdakis (TU Berlin), and Jeffrey Erman (AT&T Labs Research)

"Challenges in Inferring Internet Interdomain Congestion"
Matthew Luckie (CAIDA/UCSD), Amogh Dhamdhere (CAIDA/UCSD), David Clark (MIT), Bradley Huffaker (CAIDA/UCSD), and kc claffy (CAIDA/UCSD)

"Fine-grained relationship inference"
Vasileios Giotsas, Matthew Luckie, Bradley Huffaker, and kc claffy (UCSD/CAIDA)

"Peering at Peerings: On the Role of IXP Route Servers"
Philipp Richter, Georgios Smaragdakis, Anja Feldmann, Nikolaos Chatzis, and Jan Boettger (TU Berlin) and Walter Willinger (Nisun)

10:20am break (30min)

10:50 – 12:30pm (100min) Understanding broadband networks

"Measuring the reliability of mobile broadband networks"
Dziugas Baltrunas, Ahmed Elmokashfi, and Amund Kvalbein (Simula Research Laboratory)

"Need, Want, or Can Afford - Broadband Markets and the Behavior of Users"
Zachary S. Bischof (Northwestern University), Fabian E. Bustamante (Northwestern University), and Rade Stanojevic (Telefonica Research)

"When the Internet Sleeps: Correlating Diurnal Networks With External Factors"
Lin Quan, John Heidemann, and Yuri Pradkin (USC/ISI)
"Behind the Curtain - Cellular DNS and Content Replica Selection"
John Rula and Fabian Bustamante (Northwestern University)

12:30-2pm lunch

2pm - 3:30pm (90 min) – Clouds, and social networks

"WhoWas: A Platform for Measuring Web Deployments on IaaS Clouds"
Liang Wang (University of Wisconsin--Madison), Antonio Nappa (IMDEA),
Juan Caballero (IMDEA), Thomas Ristenpart (University of Wisconsin--Madison),
and Aditya Akella (University of Wisconsin--Madison)

"Towards Network-level Efficiency for Cloud Storage Services"
Zhenhua Li (Tsinghua University), Cheng Jin (University of Minnesota),
Tianyin Xu (UCSD), Christo Wilson (Northeastern University), Yao Liu (SUNY Binghamton),
Linsong Cheng (Tsinghua University), Yunhao Liu (Tsinghua University),
Yafei Dai (Peking University), and Zhi-Li Zhang (University of Minnesota)

"Paying for Likes? Understanding Facebook Like Fraud Using Honeypots"
Emiliano De Cristofaro (University College London), Arik Friedman (NICTA),
Guillaume Jourjon (NICTA), Dali Kaafar (NICTA), and M. Zubair Shafiq (Michigan State University)

"Whispers in the Dark: Analysis of an Anonymous Social Network"
Gang Wang, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, and Ben Y. Zhao
(University of California--Santa Barbara)

3:30pm -- break (30mins)

4:00pm – 5:20pm (80min) – Mobile systems and networks

"QoE Doctor: Diagnosing Mobile App QoE with Automated UI Control and Cross-layer Analysis"
Qi Alfred Chen, Haokun Luo, Sanae Rosen, and Z. Morley Mao (University of Michigan),
and Karthik Iyer, Jie Hui, Kranthi Sontineni, and Kevin Lau (T-Mobile USA)

"A First Look at Performance in Mobile Virtual Network Operators"
Fatima Zarini (Stony Brook University), Ayon Chakraborty (Stony Brook University),
Vyas Sekar (CMU), Phillipa Gill (Stony Brook University), and Samir Das (Stony Brook University)

"A Quantitative Study on Detecting Tethering via TCP/IP Fingerprinting"
Yi-Chao Chen (UT Austin), Yong Liao (Narus), Mario Baldi (Narus),
Sung-Ju Lee (Narus), and Lili Qiu (UT Austin)
"WiFi, LTE, or Both? Measuring Multi-homed Wireless Internet Performance"
Shuo Deng, Ravi Netravali, Anirudh Sivaraman, and Hari Balakrishnan (MIT)

Evening Reception

Day 2 (Thursday)

9:00-10:30am – (90min) – Theory underpinnings

"Node Failure Localization via Network Tomography"
Liang Ma (Imperial College), Ting He (IBM T.J. Watson), Ananthram Swami (Army Research Laboratory), Don Towsley (University of Massachusetts--Amherst), Kin K. Leung (Imperial College), and Jessica Lowe (DSTL)

"Efficient Large Flow Detection over Arbitrary Windows: An Algorithm Exact Outside An Ambiguity Region"
Hao Wu (UIUC), Hsu-Chun Hsiao (CMU), and Yih-Chun Hu (UIUC)

"Crossroads: A Practical Data Sketching Solution for Mining Intersection of Streams"
Zhenglin Yu (Georgia Tech), Zihui Ge (AT&T Research), Ashwin Lall (Denison University), Jia Wang (AT&T Research), Jun Xu (Georgia Tech), and He Yan (AT&T Research)

"OFSS: Skampling for the Flow Size Distribution"
Paul Tune (University of Adelaide) and Darryl Veitch (University of Melbourne)

10:30am break (20 min)

10:50- 12:10 – (80 min) – Shedding light on the Web

"Dissecting Web Latency in Developing Regions"
Yasir Zaki (NYU Abu Dhabi), Jay Chen (NYU Abu Dhabi), Thomas Potsch (University of Bremen), Talal Ahmad (NYU), and Lakshmi Subramanian (NYU)

"How Much Can We Micro-Cache Web Pages?"
Xiao Sophia Wang, Arvind Krishnamurthy, and David Wetherall (University of Washington)

"Back-Office Web Traffic on The Internet"
Enric Pujol (TU Berlin), Philipp Richter (TU Berlin), Balakrishnan Chandrasekaran (Duke University), Georgios Smaragdakis (TU Berlin), Anja Feldmann (TU Berlin), K.C. Ng (Akamai), and Bruce Maggs (Duke University and Akamai)
"Web of Redirection: Measuring Domain Forwarding and its Applications at Internet-scale"
Galileo Namata, Andrew G. West, and Aziz Mohaisen (Verisign Labs)

12:10pm – 1:30pm Lunch

1:30pm – 2:35 (65 min) Internet censorship

"A Look at the Consequences of Internet Censorship Through an ISP Lens"
Sheharbano Khattak (University of Cambridge), Mobin Javed (UC Berkeley),
Syed Ali Khayam (PLUMgrid), Zartash Afzal Uzmi (Lahore University of
Management Sciences), and Vern Paxson (UC Berkeley/ICSI)

"Censorship in the Wild: Analyzing Internet Filtering in Syria"
Abdelberi Chaabane (INRIA), Terence Chen (NICTA), Mathieu Cunche (University of
Lyon and INRIA), Emiliano De Cristofaro (UCL), Arik Friedman (NICTA), and
Mohamed Ali Kaafar (NICTA and INRIA)

"Automated Detection and Fingerprinting of Censorship Block Pages"
Ben Jones (Georgia Tech), Tzu-Wen Lee (Stony Brook University),
Nick Feamster (Georgia Tech), and Phillipa Gill (Stony Brook University)

2:35 break (20 min)

2:55 – 4:10pm (75 min) Insights into networked systems’ operations

"Measuring Price Discrimination and Steering on E-commerce Web Sites"
Aniko Hannak, Gary Soeller, David Lazer, Alan Mislove, and Christo Wilson
(Northeastern University)

"Capturing Ghosts: Predicting the Used IPv4 Space by Inferring Unobserved Addresses"
Sebastian Zander (Swinburne University of Technology), Lachlan Andrew (Monash
University), and Grenville Armitage (Swinburne University of Technology)

"A QoE Perspective on Sizing Network Buffers"
Oliver Hohlfeld (RWTH Aachen University), Enric Pujol (TU Berlin),
Florin Ciucu (University of Warwick), Anja Feldmann (TU Berlin), and
Paul Barford (University of Wisconsin–Madison)

4:10 break (20 mins)

4:30-6pm Community Feedback (30min); Ethics in measurement (60min)

Evening Banquet Dinner
Day 3 (Friday)

9:00-10:05 – (65 min) – Illuminating malicious behavior

"Handcrafted Fraud and Extortion: Manual Account Hijacking in the Wild"
Borbala Benko, Elie Bursztein, Daniel Margolis, Tadek Pietraszek, Andy Archer, and Allan Aquino (Google),
and Andreas Pitsillidis and Stefan Savage (UCSD)

"Search + Seizure: The Effectiveness of Interventions on SEO Campaigns"
David Y. Wang (UCSD), Matthew Der (UCSD), Mohammad Karami (George Mason University),
Lawrence Saul (UCSD), Damon McCoy (George Mason University), Stefan Savage (UCSD),
and Geoffrey M. Voelker (UCSD)

"The Dark Alleys of Madison Avenue: Understanding Malicious Advertisements"
Apostolis Zarras (Ruhr-University Bochum), Alexandros Kapravelos (UCSB),
Gianluca Stringhini (UCSB), Thorsten Holz (Ruhr-University Bochum),
Christopher Kruegel (UCSB), and Giovanni Vigna (UCSB)

10:05 break (25 min)

10:30 – 12:10pm (100 min) Measuring the data and control planes

"Layer 1-Informed Internet Topology Measurement"
Ramakrishnan Duraiswamy (University of Wisconsin--Madison), Joel Sommers (Colgate University), and Paul Barford (University of Wisconsin--Madison)

"WireCAP: a Novel Packet Capture Engine for Commodity NICs in High-speed Networks"
Wenji Wu and Phil DeMar (Fermilab)

"Timing is Everything: Accurate, Zero-cost, Available Bandwidth Estimation in High-speed Wired Network"
Han Wang, Ki Suh Lee, Erluo Li, ChiunLin Lim, Hakim Weatherspoon, and Ao Tang (Cornell University)

"Identifying and Analyzing High Impact Routing Events with PathMiner"
Giovanni Comarella and Mark Crovella (Boston University)

12:15 – 2pm LUNCH

2:00 – 3:15pm (75min) – Attacks: a deeper look
"Taming the 800 Pound Gorilla: The Rise and Decline of NTP DDoS Attacks"
Jakub Czyz (University of Michigan), Michael Kallitsis (Merit Network),
Manaf Gharaibeh (Colorado State University), Christos Papadopoulos (Colorado State
University), Michael Bailey (University of Michigan), and Manish Karir (Merit Network)

"DNSSEC and its potential for DDoS attacks - a comprehensive measurement study"
Roland van Rijswijk-Deij, Anna Sperotto, and Aiko Pras (University of Twente)

"HILTI: An Abstract Execution Environment for Deep, Stateful Network Traffic Analysis"
Robin Sommer (ICSI/LBNL), Matthias Vallentin (UC Berkeley), Lorenzo De Carli
(University of Wisconsin–Madison), and Vern Paxson (UC Berkeley/ICSI)

3:15pm (30min) break

3:45pm – 4:50pm (65 min) – SSL & Heartbleed

"The Matter of Heartbleed"
Zakir Durumeric (University of Michigan), James Kasten (University of Michigan),
Frank Li (UC Berkeley), Nicolas Weaver (ICSI and UCSD), Vern Paxson (UC Berkeley/ICSI),
Michael Bailey (University of Michigan), J. Alex Halderman (University of Michigan),
Jethro Beekman (UC Berkeley), Johanna Amann (ICSI),
Mathias Payer (UC Berkeley), and David Adrian (University of Michigan)

"Analysis of SSL certificate reissues and revocations in the wake of Heartbleed"
Liang Zhang (Northeastern University), David Choffnes (Northeastern University),
Tudor Dumitras (University of Maryland), Dave Levin (University of Maryland),
Alan Mislove (Northeastern University), Aaron Schulman (Stanford University),
and Christo Wilson (Northeastern University)

"Forced Perspectives: Evaluating an SSL Trust Enhancement at Scale"
Adam Bates, Joe Pletcher, Tyler Nichols, Braden Hollembaek, and Kevin R.B. Butler (University
of Oregon)