

## Workshop I: Multiscale Representation, Analysis and Modeling of Internet Data and Measurements

### Monday September 22, 2008

- 8:00–12:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:45–9:00 *Welcome and Opening Remarks*
- 9:00–10:00 **Alfred Hero** (University of Michigan)  
*Spam network discovery*
- 10:00–10:15 *Break*
- 10:15–11:05 **Morley Mao** (University of Michigan)
- 11:15–11:30 *Break*
- 11:30–12:20 **Sven Dietrich** (Stevens Institute of Technology)  
*Challenges in Botnet Enumeration*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:00 **Ming Zhang** (Microsoft Research)  
*Uncovering Performance Differences among Backbone ISPs with Netdiff*
- 3:00–4:30 *Break*
- 4:30–6:00 *Reception (Location: IPAM Lobby)*

### Tuesday September 23, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Mauro Maggioni** (Duke University)  
*Multiscale harmonic analysis on graphs and data sets*
- 10:00–10:15 *Break*
- 10:15–11:05 **Michael Rabbat** (McGill University)  
*Compressed Network Monitoring for IP and All-Optical Networks*
- 11:15–11:30 *Break*

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- 11:30–12:20 **Eric Kolaczyk** (Boston University)  
*Statistical Multiresolution Analysis of Internet Traffic on Graphs: Good Idea or Wishful Thinking?*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Paul Barford** (University of Wisconsin-Madison)  
*Shedding New Light on Network Behavior via DNS Query Analysis*
- 3:00–3:15 *Break*
- 3:15–4:05 **Amos Ron** (University of Wisconsin-Madison)  
*Introduction to MRA representations in Euclidean spaces*
- 4:05–5:00 **Rebecca Willett** (Duke University)  
*Hypergraph-Based Detection of Anomalous Co-Occurrences in the Internet*

### Wednesday September 24, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Martin Strauss** (University of Michigan)  
*Combining Geometry and Combinatorics: A Unified Approach to Sparse Signal Recovery*
- 10:00–10:15 *Break*
- 10:15–11:05 **Walter Willinger** (AT&T Technologies, Engineering Research Center)
- 11:15–11:30 *Break*
- 11:30–12:20 **Oliver Spatscheck** (AT&T Labs-Research)  
*Network Measurement Challenges and Solutions in a large ISP*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Renata Teixeira** (Centre National de la Recherche Scientifique (CNRS))  
*Network Tomography for Fault Diagnosis*
- 3:00–3:15 *Break*
- 3:15–5:05 *Poster Session*

## Thursday September 25, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Lixin Gao** (University of Massachusetts Amherst)  
*Characteristics of Inter-AS Topology, Routing Policy and Interdomain Routing*
- 10:00–10:15 *Break*
- 10:15–11:05 **Sharad Agarwal** (Microsoft Research)  
*Analysis of Network Connectivity and QoS of Xbox360 Game Players*
- 11:15–11:30 *Break*
- 11:30–12:20 **Brian Eriksson** (University of Wisconsin-Madison)  
*Network Discovery from Passive Measurements*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Reza Rejaie** (University of Oregon)
- 3:00–3:15 *Break*
- 3:15–4:15 *Panel Discussion*

## Friday September 26, 2008

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:30 **David Rincon** (Universitat Politècnica de Catalunya)
- 9:30–9:45 *Break*
- 9:45–10:30 **Adam Bender** (University of Maryland)
- 10:30–10:45 *Break*
- 10:45–11:45 **James Abello** (Rutgers University New Brunswick/Piscataway)

