

## Workshop II: Applications of Internet MRA to Cyber-Security

### Monday October 13, 2008

- 8:00–8:45 *Continental Breakfast*
- 8:45–9:00 *Welcome and Opening Remarks*
- 9:00–12:00 *Jelena Mirkovic, Chair*
- 9:00–10:00 **Darryl Veitch** (University of Melbourne)  
*Improving Wireless Security Through Network Diversity*
- 10:00–10:15 *Break*
- 10:15–11:15 **David Dagon** (Georgia Institute of Technology)
- 11:15–11:30 *Break*
- 11:30–12:30 **Xiaowei Yang** (Duke University)  
*To Filter or to Authorize: Network-Layer DoS Defense Against Multimillion-node Botnets*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:00 **Vitaly Shmatikov** (University of Texas at Austin)  
*Challenges of compositional reasoning about security: the case of voice-over-IP protocols*
- 3:00–3:15 *Break*
- 3:15–4:15 **Vinod Ganapathy** (Rutgers University)  
*Enforcing Security Policies using Transactional Memory Introspection*
- 4:30–6:00 *Reception (Location: IPAM Lobby)*

### Tuesday October 14, 2008

- 8:00–8:45 *Continental Breakfast*
- 9:00–12:00 *Cristina Nita-Rotaru, Chair*
- 9:00–10:00 **Sonia Fahmy** (Purdue University)  
*Tools for Scalable Security Experiments*
- 10:00–10:15 *Break*
- 10:15–11:15 **Jelena Mirkovic** (USC Information Sciences Institute)  
*Correcting Congestion-Based Error in Network Telescope's Observations of Worm Dynamics*
- 11:15–11:30 *Break*

*(Tuesday schedule continued on next page)*



*(Tuesday schedule continued from previous page)*

11:30–12:30 **Chris Kruegel** (University of California, Santa Barbara (UC Santa Barbara))

12:30–2:00 *Lunch (on your own)*

2:00–3:00 **Kevin Fu** (University of Massachusetts Amherst)  
*Implantable Medical Devices: Security and Privacy for Pervasive, Wireless Healthcare*

3:00–3:15 *Break*

3:15–4:15 **Brian Witten** (Symantec Corporation)

4:15–5:15 **Nick Feamster** (Georgia Institute of Technology)  
*Network-Level Spam Filtering*

### Wednesday October 15, 2008

8:00–8:45 *Continental Breakfast*

9:00–12:00 *Paul Barford, Chair*

9:00–10:00 *CANCELLED*

10:00–10:15 *Break*

10:15–11:15 **Marc Dacier** (Institut Eurécom)  
*Lessons learned from the collection and analysis of malware related data in the context of the WOMBAT project*

11:15–11:30 *Break*

11:30–12:30 **Andy Ogielski** (Renesys Corporation)

12:30–2:00 *Lunch (on your own)*

2:00–3:00 **Paul Barford** (University of Wisconsin-Madison)  
*Internet Counterespionage*

3:00–3:15 *Break*

3:15–4:30 *Poster Session*

## Thursday October 16, 2008

- 8:00–8:45 *Continental Breakfast*
- 9:00–12:00 *John McHugh, Chair*
- 9:00–10:00 **Athina Markopoulou** (University of California, Irvine (UCI))  
*Filtering of Malicious IP Sources*
- 10:00–10:15 *Break*
- 10:15–11:15 **Rachna Dhamija** (Harvard University)
- 11:15–11:30 *Break*
- 11:30–12:30 **Wenke Lee** (Georgia Institute of Technology)  
*CLEANSE: Cross-Layer Large-Scale Efficient Analysis of Network Activities to SEcure the Internet*
- 12:30–2:00 *Lunch (on your own)*
- 2:00–12:00 *Athina Markopoulou, Chair*
- 2:00–3:00 **Cristina Nita-Rotaru** (Purdue University)  
*Lessons Learned from Designing Byzantine-Resilient Protocols*

## Friday October 17, 2008

- 8:00–8:45 *Continental Breakfast*
- 9:00–12:00 *Rachna Dhamija, Chair*
- 9:00–10:00 **John McHugh** (Dalhousie University)  
*Very low frequency traffic and noise on the Internet.*
- 10:00–10:15 *Break*
- 10:15–11:15 **Sven Dietrich** (Stevens Institute of Technology)
- 11:15–11:30 *Break*
- 11:30–12:30 **Urbashi Mitra** (University of Southern California (USC))  
*Signal Processing Methods for Denial of Service Attack Detection*

