

Workshop Program

Three workshops are being held in conjunction with SRDS 2009. The workshops will take place on Sunday September 27, 2009. Two of these workshops are held sequentially and the third one will be run concurrently with the others in Olmstead and Whitney rooms of Conference Center Niagara Falls (CCNF).

Joint Workshop on Dependable Network Computing and Mobile Systems (DNCMS) and Field Failure Data Analysis (F2DA) 2009

Sunday September 27, 2009

- 8:00 am - 9:00 am Breakfast and Registration (**Common Break Area, CCNF**)
- 9:00 am - 9:10 am Opening Remarks (**Olmstead, CCNF**)
 Isaac Woungang, Ryerson University, Canada;
 Domenico Cotroneo, Federico II University of Naples, Italy
- 9:10 am - 10:40 am Session 1 (DNCMS) - **Chair: Isaac Woungang, Ryerson University, Canada**
 - Intrusion-Tolerant Group Management for Mobile Ad-Hoc Networks
 Jonathan Kirsch (Johns Hopkins University, USA); Brian Coan (Telcordia Technologies, USA)
 A Data Mining Based Approach to Reliable Distributed Systems
 Michael Mock (Fraunhofer IAIS, Germany); Dennis Wegener (Fraunhofer IAIS, Germany)
 PNETMAP: Virtual Network Implementation on a Partially-Known Physical Network
 Cristian Ferent (State University of New York at Stony Brook, USA); Alex Doboli (SUNY at Stony Brook, USA)
 Developing Attack Defense Ideas for Ad Hoc Wireless Networks
 Ruy De Oliveira (IFMT, Brazil); Bharat Bhargava (Purdue University, USA); M. Azarmi (Purdue University, USA); Ed Wilson T. Ferreira (IFMT, Brazil); Weichao Wang (UNC-Charlotte, USA); Mark Linderman (Air Force Research Lab, USA)
- 10:40 am - 10:55 am Coffee Break (**Common Break Area**)
- 10:55 am - 11:55 am Keynote Address – “Detection of Collaborative Attacks and Cyber Defense”, **Bharat K. Bhargava**, Purdue University, USA
- 11:55 am - 1:00 pm Lunch (**Cataract Room**)
- 1:00 pm - 2:40 pm Session 2 (DNCMS) - **Chair: Michael Mock, Fraunhofer IAIS, Germany**
 - Performance Evaluation of the Impact of Attacks on Mobile Ad hoc Networks
 Malcolm Parsons (Technische Universität Darmstadt, Germany); Peter Ebinger (Fraunhofer-Institut für Graphische Datenverarbeitung IGD, Germany)
 Defending against Collaborative Packet Drop Attacks on MANETs
 Weichao Wang (UNC-Charlotte, USA); Bharat Bhargava (Purdue University, USA); Mark Linderman (AFRL, USA)
 Improvement of Throughput Using Partially Node-disjoint Forward and Backward Paths for Mobile Ad Hoc Networks
 Mario Takeuchi (Hiroshima City University, Japan); Eitaro Kohno (Hiroshima City University, Japan); Tomoyuki Ohta (Hiroshima City University, Japan); Yoshiaki Kakuda (Hiroshima City University, Japan)
 A Neural Network Approach for Wireless Sensor Network Power Management
 Ahmad Hosseingholizadeh (Ryerson University, Canada); Abdolreza Abhari (Ryerson University, Canada)
- 2:40 pm - 3:15 pm Coffee Break (**Common Break Area**)
- 3:15 pm - 4:15 pm Session 3 (F2DA) - **Chair: Domenico Cotroneo, Federico II University of Naples, Italy**
 - Improving FFDA of Web Servers through a Rule-Based Logging Approach
 M. Cinque (University of Naples Federico II, Italy); R. Natella (University of Naples Federico II, Italy); A. Pecchia (University of Naples Federico II, Italy); S. Russo (University of Naples Federico II, Italy)
 An Experimental Analysis of Open Source Software Reliability
 Cobra Rahmani (University of Nebraska-Omaha, USA); Harvey Siy (University of Nebraska-Omaha, USA); Azad Azadmanesh (University of Nebraska-Omaha, USA)
 Is RSSI a Reliable Parameter in Sensor localization Algorithms – An Experimental Study
 Ambili Thottam Parameswaran (State University of New York at Buffalo, USA); Mohammad Iftekhar Husain (State University of New York at Buffalo, USA); Shambhu Upadhyaya (State University of New York at Buffalo, USA)
- 4:15 pm Wrap-Up

Embedded Systems and Communications Security (ESCS) 2009

Sunday September 27, 2009

- 8:00 am - 9:00 am Breakfast/Registration (**Common Break Area, CCNF**)
- 9:00 am - 9:05 am Opening Remarks (**Whitney, CCNF**)

Vinodh Gopal, Intel Corporation

- 9:05 am -10:25 am Session 1 – **Chair: Miroslav Velev, Aries Design Automation**

Hardware Mechanism and Performance Evaluation of Hierarchical Page-Based Memory Bus Protection

Lifeng Su (STMicroelectronics), Albert Martinez (STMicroelectronics), Pierre Guillemi (STMicroelectronics), Sébastien Cerdany (Télécom ParisTech), Renaud Pacalety (Télécom ParisTech)

On the Complexity of Probabilistic Key Pre-distribution Schemes

Mahalingam Ramkumar (Mississippi State University)

Hierarchical Concealed Data Aggregation for Wireless Sensor Networks

Suat Ozdemir (Gazi University, Turkey), Yang Xiao (The University of Alabama Tuscaloosa)

Highly-Resilient Services for Critical Infrastructures

Giuliana Santos Veronese (Universidade de Lisboa, Portugal), Miguel Correia (Universidade de Lisboa, Portugal), Alysson Neves Bessani (Universidade de Lisboa, Portugal), Lau Cheuk Lung (Universidade Federal de Santa Catarina – Brazil)

- 10:25 am -10:45 am **Coffee Break (Common Break Area)**
- 10:45 am -11:45 am **Keynote Address - “Message Digests for the Twenty-First Century: An Overview of the NIST SHA-3 Cryptographic Hash Algorithm Competition”, Alan Kaminsky, Rochester Institute of Technology**
- 11:45 am -1:00 pm **Lunch (Cataract Room)**
- 1:00 pm - 2:00 pm Session 2 – **Chair: Berk Sunar, Worcester Polytechnic Institute**

Fast and Constant-Time Implementation of Modular Exponentiation

Vinodh Gopal, James Guilford, Erdinc Ozturk, Wajdi Feghali, Gil Wolrich, Martin Dixon (Intel Corporation)

SensorEar: A Sensor Network Based Eavesdropping System

Ge Ruan, Soumya Jain and Sencun Zhu (The Pennsylvania State University)

Accelerating Techniques for Rapid Mitigation of Phishing and Spam Emails

Pranil Gupta, Ajay Nagrale and Shambhu Upadhyaya (University at Buffalo)

- 2:00 pm - 2:45 pm **Invited Talk - “Embedded Security and Survivability”, Phil Koopman, Carnegie Mellon University**
- 2:45 pm – 3:15 pm **Coffee Break (Common Break Area)**
- 3:15 pm - 4:00 pm **Invited Talk - “Challenges and Opportunities in Embedded System Security: A View from the Trenches”, Nachiketh Potlapally, Intel Corporation**
- 4:00 pm - 4:45 pm **Panel Discussion – “Security Issues in Next Generation Smartphones”**
Panelists: Mike Kurdziel, Harris Corporation; Berk Sunar, Worcester Polytechnic Institute and Miroslav Velev, Aries Design Automation
- 4:45 pm **Wrap-Up and Closing Remarks**