

# CSIIRW09 Workshop Program

Sponsored by: **UTK; ORNL CSED**

Final April 12, 2009

[PDF of program schedule](#)

[Keynote Speakers' Abstracts/ Bios](#)

[CSIIRW09 Proceedings \(Presenter's Abstracts and Slide Presentations\)](#)

	13-Apr-09	13-Apr-09	13-Apr-09	14-Apr-09	14-Apr-09	14-Apr-09	15-Apr-09	15-Apr-09
TIME	Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7	Track 8
6:50-7:30	Transportation Provided from Doubletree to ORNL (Departing at 7:10 am) ↓ Badges will be available on Monday 6:30am - 7:10am at the Doubletree lobby ↓ Breakfast is available all three days at the conference center starting at 7:30am							
7:30-8:00	Formal Workshop Opening: Welcome and Introductions			Welcome and Day 1 Review			Welcome and Day 2 Review	
8:00-8:45	<b>Plenary Session Speaker:</b> Dr. Doug Maughan, Cyber Security Research Lead, S&T Directorate, US Department of Homeland Security  National Cyber Security Research Assessment and Roadmap			<b>Plenary Session Speaker:</b> George Hull, Chief Technology Officer (CTO) & Technical Director of the Information Superiority Operating Unit within the Intelligence Group (TASC), Northrop Grumman Corp.  Security and Complexity ..... Are we on the Wrong Road?			<b>Plenary Session Speaker:</b> Professor Bhavani Tuaisingham, Director of Cyber Security Research Ctr., Prof. of Computer Science, Univ. Texas at Dallas  Assured Information Sharing between Trustworthy, Semi-trustworthy and Untrustworthy Coalition Partners	
8:45-9:30	<b>Plenary Session Speaker:</b> Professor Sajal Das, Program Director, Network Technology and Systems (NeTS) Cluster, National Science Foundation, and Professor of Computer Science and Engineering, University of Texas at Arlington  Pervasively Secured Infrastructures: A Multi-Layer Mathematical Framework			<b>Keynote Panel,</b> Frederick Sheldon Moderator			15 Minute Break  Towards Insider Threat Detection using Web Server Logs, Justin Myers, Michael R. Girmalia and Robert F. Mills	
9:30-10:00	Security-oriented Program Transformations, Munawar Haliz, Ralph E. Johnson	A Distributed Reinforcement Learning Approach to Mission Survivability in Tactical MANETs, Marco Carvalho	A Framework for Synthetic Stego, Philip Ritchey, Jorge R. Ramos and Vernon Rego				Integrated Circuit Security - New Threats and Solutions, Miron Abramovici and Paul Bradley	Introduction of First Passage Time (FFT) Analysis for Software Reliability and Network Security, Z. (Sam) Ma Axel Krings and Richard Millar
10:00-10:15	<b>Break</b>							
10:15-10:45	Security Policy Testing via Automated Program Code, Generation, Ting Yu, Dhivya Sivasubramanian and Tao Xie	Detecting Overflow Vulnerabilities Using Automated Verification, Jason O. Hallstrom, Brian A. Malloy and Murali Sitaraman	Leveraging Complexity in Software for Cybersecurity, Rob Armstrong and Jackson Mayo	Assessment of Accountability Policies for Large-Scale Distributed Computing, W. Lee, A. Squicciarini and Elisa Bertino	Graph-Based Approaches to Insider Threat Detection, William Eberle and Lawrence Holder	The Case for Prevention-based, Host-resident Defenses in PCS Networks, Charles Payne, Jr.	Feature Set Selection in Data Mining Techniques for Unknown Virus Detection – A Comparison Study, J. Dai, R. Guha and J. Lee	Towards Usable Cyber Security Requirements, Jose Romero-Mariona, Hadar Ziv, Debra J. Richardson and Dennis Bystritsky
10:45-11:15	Long Term Data Storage Issues for Situational Awareness, John McHugh	Resilient Multi-core Systems: A Hierarchical Formal Model for N-variant Executions, Axel Krings, Li Tan, C. Jeffery and R. Rinker	Privacy-Preserving Multi-Dimensional Credentialing Using Veiled Certificates, Chin-Tser Huang and John H. Gerdes, Jr.	Source Code and Binary Analysis of Software Defects, Daniel Quinlan and Thomas Panos	A Security Architecture to Protect against the Insider Threat from Damage, Fraud and Theft, Clive Blackwell	u-Vote : a convenient on-line e-voting system, Francesca Merighi and Stefano Ravaiofi	File-system Intrusion Detection by preserving MAC DTS, Suvrajit Das, Arijit Chattopadhyay, Dipesh Kumar Kalyani and Monojit Saha	A Dynamic Erasure Code for Multicasting Live Data, Erik Ferragut
11:15-11:45	Ontology-based Security Assessment for Software Products, Ju An Wang, Minzhe Guo, Hao Wang, Min Xia and Linfeng Zhou	Privacy-Aware Security Applications Using RFID Technology, S. Srinivasan	Metamodels for Misuse Cases, Mark Hartong, Rajni Goel and Duminda Wijsekera	A Biologically Inspired Password Authentication System, Dipankar Dasgupta and Sudip Saha	A Traceability Link Mining Approach for Identifying Insider Threats, Yi Hu and Brajendra Panda	User Identification Via Process Profiling, Steven J. McKinney and Douglas S. Reeves	Secure Processing Using Dynamic Partial Reconfiguration, Christopher T. Rathgeb and Gregory D. Peterson	A Pipeline Development Toolkit in Support of Secure Information Flow Goals, Philip Tricca
11:45-1:00	<b>Lunch</b> Signup for Tuesday Night Dinner Reservations by Now			<b>Lunch</b>			<b>Lunch</b>	
1:00-1:45	<b>Plenary Session Speaker:</b> Professor Nabil Adam, Fellow, Infrastructure & Geophysical Division, S&T Directorate, US Department of Homeland Security, and Professor of Computers and Information Systems, Rutgers University  Cyber-physical Systems Security			<b>Plenary Session Speaker:</b> Professor Salvatore J. Stolfo, Professor of Computer Science, Columbia University  Polymorphic Shellcode: The Demise of Signature-based Detection			<b>Plenary Session Speaker:</b> Professor Carlton Pu, Professor and John P. Imlay, Jr. Chair in Software College of Computing, Georgia Institute of Technology  Spam and Denial of Information Attacks and Defenses	
1:45-2:30	15 Minute Break			<b>Plenary Session Speaker:</b> Robert J. Stratton III, Director, Government Research, Symantec Research Laboratories  Internet Security Threat Landscape: Scaling to Meet the Threat			15 Minute Break	
2:30-3:00	Debugging Support for Security Properties of Software Architectures, Kyungsoo Im and John McGregor	Techniques for Enterprise Network Security Metrics, Anoop Singhal and Simon Ou	OVM: An Ontology for Vulnerability Management, Ju An Wang and Minzhe Guo	Virtualization Security, Edward Ray and E. Eugene Schultz	Monitoring Security Events Using Integrated Correlation-based Techniques, Qishi Wu, D. Ferebee, Y. Lin and Dipankar Dasgupta	External Monitoring of Endpoint Configuration Compliance, Darnell M. Kienzie, Ryan K. Persaud, and Matthew C. Elder	High assurance programming in Cryptol, Levent Erkok and John Matthews	Decision Dependability and its Application to Identity Management, Nathan Kalka, Nick Bartlow, B. Cukic
3:00-3:30	On Building Secure SCADA Systems using Security Patterns, Eduardo B. Fernandez, Jie Wu, M. M. Larrondo-Petie and Yifeng Shao	Quantifying Security Threats and Their Impact, Anis Ben Aissa, R. Abercrombie, F.T. Sheldon and Ali Mill	Information Intelligence in Cloud Computing, Asesh Das, Ramona Reddy, Luyi Wang and Sumitra Reddy	Trust Negotiation: Authorization for Virtual Organizations, M. Winslett, Adam J. Lee and Kenneth J. Perano	Behavioral Analysis of Fast Flux Service Networks, A. Caglayan, Mike Toothaker, Dan Drapeau, Dustin Burke and Gerry Eaton	Security Models for Contextual Based Global Processing an Architecture and Overview, Gregory Vert, S.S Iyengar and Vir Phoha	Total Cost of Security – A Method for Managing Risks and Incentives Across the Extended Enterprise, Russell Cameron Thomas	How to Determine Threat Probabilities Using Ontologies and Bayesian Networks, Stefan Fenz and Thomas Neubauer
3:30-3:45	Break			Break			<b>Formal Workshop End - Concluding Remarks</b>  <b>SNS Super Computing Tour (3:45-5:00)</b>	
3:45-4:15	JigDFS in Container Communities for International Cargo Security, J. Bian, R. Seker, and S. Ramaswamy	An Outline of the Three-Layer Survivability Analysis Architecture, Zhanshan (Sam) Ma and Axel W. Krings	Data Fusion for Improved Situational Understanding, Ambarveen Siraj	<b>DOE Grass Roots Panel,</b> Deborah Frincke Moderator (3:45 - 5:15)				
4:15-4:45	Automatic Image Analysis Process for the Detection of Concealed Weapons, R. Gesick, Camer Scalfiac and Chih-Cheng Hung	Using Automatic Signature Generation as a Sensor Backend, Daniel Wyszogrod and Jeffrey Dezzo	An Active Trust Model based on Zero Knowledge Proofs for Airborne Networks, Kamesh Namuduri					
6:00-7:00	Transportation Provided: ORNL to Doubletree (Departing at 5:00 pm)			Transportation Provided: ORNL to Doubletree and Restaurant (Depart 5:30 pm)			Transportation Provided: ORNL to Doubletree (Depart 5:05 pm)	
7:00-8:30	<b>Reception</b> at Doubletree (Cash Bar) 6:00 - 7:00 pm  <b>BANQUET (included in registration fee)</b>  <b>Speaker:</b> Professor Mike Hinchey, Co-Director, Lero –The Irish Software Engineering Research Centre, University of Limerick, Ireland  We Can't Get There From Here! The paradox of developing new classes of complex systems			Workshop Dinner (non-sponsor) at Flat Water Grill  Signup for Reservations by Lunch Time Monday!				

**Information Links:**

Anyone who would like to participate and has not received an invitation to register with the ORNL Visitor Services must register (contact Cristal Case casecs@ornl.gov)

Flatwater Grill <http://www.theflatwatergrill.com/>