

## Annual Computer Security Applications Conference (ACSAC) 2008

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### Full Program

#### Monday, 8 December 2008

8:30-17:00	<b>M1. Tutorial</b> <a href="#">Intrusion Detection and Assessment through Mining and Learning Data Characteristics of Cyber Attacks and Normal Use Activities</a> , Dr. Nong Ye, Arizona State University	<b>M2. Tutorial</b> <a href="#">WebAppSec.php: Developing Secure Web Applications</a> , Mr. Robert H'obbes' Zakon, Zakon Group LLC	<b>M3. Tutorial</b> <a href="#">Cryptographic Techniques for Digital Rights Management</a> , Dr. Hongxia Jin, IBM Almaden Research Center
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#### Tuesday, 9 December 2008

8:30-17:00	<b>T4. Tutorial - CANCELLED</b> <a href="#">Acquisition and Analysis of Large Scale Network Data V.4</a> , Dr. John McHugh, Dalhousie University	<b>T5. Tutorial</b> <a href="#">Web Services Security, Techniques and Challenges</a> , Dr. Anoop Singhal, NIST, and Mr. Gunnar Peterson, Arctec Group
8:30-16:30	<b>Workshop</b> <a href="#">Virtualization Security</a>	
8:30-12:00	<b>T6. Tutorial</b> <a href="#">Web Injection Attacks</a> , Dr. V. N. Venkatakrishnan, University of Illinois at Chicago	
13:30-17:00	<b>T7. Tutorial</b> <a href="#">Multi-perspective Application Security Risk Analysis: A Toolbox Approach</a> , Mr. Sean Barnum (coordinator), Cigital, Inc.; Mr. Jacob West, Fortify Software; Mr. Ray Lininer, IBM/Rational/Watchfire; Mr. Anthony Vicinelly or Mr. Josh Shaul, Application Security, Inc.; Maj. Michael Kleffman, USAF	
18:00-20:00	<b>Welcome Reception</b>	

#### Wednesday, 10 December 2008

8:30-8:45	<b>Opening Remarks</b> Cristina Serban, Conference Chair Pierangela Samarati, Program Chair		
8:45-10:00	<b>Invited Essayist</b> <i>Chair:</i> Steve Rome <a href="#">Structuring for Strategic Cyber Defense: A Cyber Manhattan Project Blueprint</a> , O. Sami Saydjari, CEO, Cyber Defense Agency LLC		
10:00-10:30	<b>Break</b>		
10:30-12:00	<b>Track A. Refereed Papers [Forensics and Security Management]</b> <i>Chair:</i> Christoph Schuba <a href="#">Practical Applications of Bloom filters to the NIST RDS, hard drive triage, and data mining</a> . Paul Farrell, Simson Garfinkel <a href="#">Systematic Signature Engineering by Re-use of Snort Signatures</a> Sebastian Schmerl, Hartmut Koenig, Ulrich Flegel, Michael Meier, René Rietz <a href="#">Analyzing the performance of security operations to reduce vulnerability exposure windows</a> Yolanta Beres, Jonathan Griffin, Simon Shiu, Max Heitman, David Markle	<b>Track B. Refereed Papers [Operating Systems and Memory Security]</b> <i>Chair:</i> Ed Schneider <a href="#">New Side Channels Targeted at Passwords</a> Albert Tannous, Jonathan Trostle, Mohamed Hassan, Stephen McLaughlin, Trent Jaeger <a href="#">PinUP: Pinning User Files to Known Applications</a> William Enck, Patrick McDaniel, Trent Jaeger <a href="#">Defending Against Attacks on Main Memory Persistence</a> William Enck, Kevin Butler, Thomas Richardson, Patrick McDaniel, Adam Smith	<b>Track C. Case Studies</b> DNI/DOD/IC C&A Transformation Initiative, Marianne Bailey, Director, Cross Domain Management Office; Roger Caslow, ODNI; Ron Ross, NIST; Eustice King, OSD/C3I
12:00-13:15	<b>Lunch</b>		
13:15-14:45	<b>Track A. Refereed Papers [Kernel-level Defensive Techniques]</b> <i>Chair:</i> Reiner Sailer <a href="#">Automatic Inference and Enforcement of Kernel Data Structure Invariants</a> Arati Baliga, Vinod Ganapathy, Liviu Iftode	<b>Track B. Panel</b> <a href="#">Spam, Phishing - A Global Perspective</a> , Marc Dacier (Chair), Director Symantec Research Labs Europe; Domenico Dati, Tiscali; Engin Kirda, Eurecom Institute; Gerhard Paass, Fraunhofer Institute; David Ulevitch, CEO of OpenDNS and founder of Phishtank	<b>Track C. Case Studies</b> First Public Discussion of Unified Certification and Accreditation Process for the U.S. Government, Ron Ross (Chair), NIST

	<p><a href="#">VICI--Virtual Machine Introspection for Cognitive Immunity</a> Timothy Fraser, Matthew Evenson, William Arbaugh</p> <p><a href="#">Soft-Timer Driven Transient Kernel Control Flow Attacks and Defense</a> Jinpeng Wei, Bryan Payne, Jon Giffin, Calton Pu</p>		
14:45-15:15	<b>Break</b>		
15:15-17:15	<p><b>Track A. Refereed Papers [Graphical Passwords and Biometrics]</b> <i>Chair:</i> David Whyte</p> <p><a href="#">On Purely Automated Attacks and Click-Based Graphical Passwords</a> Amirali Salehi-Abari, Julie Thorpe, Paul Van Oorschot</p> <p><a href="#">YAGP: Yet Another Graphical Password Strategy</a> Haichang Gao, Xuewu Guo, Xiaoping Chen, Liming Wang, Xiyang Liu</p> <p><a href="#">Privacy-aware Biometrics: Design and Implementation of a Multimodal Verification System</a> Stelvio Cimato, Marco Gamassi, Vincenzo Piuri, Roberto Sassi, Fabio Scotti</p> <p><a href="#">Improving the Efficiency of Capture-resistant Biometric Authentication based on Set Intersection</a> Xunhua Wang, Philip Huff, Brett Tjaden</p>	<p><b>Track B. Refereed Papers [Access Control]</b> <i>Chair:</i> Kent Seamons</p> <p><a href="#">ProActive Access Control for Business Process-driven Environments</a> Mathias Kohler, Andreas Schaad</p> <p><a href="#">Assessing Quality of Policy Properties in Verification of Access Control Policies</a> Evan Martin, JeeHyun Hwang, Tao Xie, Vincent Hu</p> <p><a href="#">Please Permit Me: Stateless Delegated Authorization in Mashups</a> Ragib Hasan, Richard Conlan, Brian Slesinsky, Nandu Ramani, Marianne Winslett</p> <p><a href="#">Implementing ACL-based Policies in XACML</a> Guenter Karjoth, Andreas Schade, Els Van Herreweghen</p>	<p><b>Track C. Refereed Papers [Network Security]</b> <i>Chair:</i> V.N. Venkatakrishnan</p> <p><a href="#">Execution Trace-Driven Automated Attack Signature Generation</a> Susanta Nanda, Tzi-cker Chiueh</p> <p><a href="#">Improving Security Visualization with Exposure Map Filtering</a> David Barrera, Mansour Alsaleh, Paul van Oorschot</p> <p><a href="#">Attack Grammar: A New Approach to Modeling and Analyzing Network Attack Sequences</a> Yinqian Zhang, Xun Fan, Yijun Wang, Zhi Xue</p> <p><a href="#">Host-Centric Model Checking for Network Vulnerability Analysis</a> Rattikorn Hewett, Phongphun Kijsanayothin</p>
18:00-20:00	<b>Dinner</b>		

**Thursday, 11 December 2008**

8:30-8:45	<b>Opening Remarks</b>		
8:45-10:00	<p><b>Distinguished Practitioner</b> <i>Chair:</i> Christoph Schuba</p> <p><a href="#">Insecurity in a Web-Services World</a>, Whitfield Diffie, Sun Microsystems, Inc.</p>		
10:00-10:30	<b>Break</b>		
10:30-12:00	<p><b>Track A. Refereed Papers [Role-based Access Control]</b> <i>Chair:</i> Lillian Røstad</p> <p><a href="#">The Role Hierarchy Mining Problem: Discovery of Optimal Role Hierarchies</a> Qi Guo, Jaideep Vaidya, Vijayalakshmi Atluri</p> <p><a href="#">Permission Set Mining: Discovering Practical and Useful Roles</a> Dana Zhang, Kotagiri Ramamohanarao, Tim Ebringer, Trevor Yann</p> <p><a href="#">Towards Enforcing Role-Based Access Control Policies in Web Services with UML and OCL</a> Sohr Karsten, Mustafa Tanveer, Ahn Gail-Joon, Xinyu Bao</p>	<p><b>Track B. Refereed Papers [Intrusion Detection]</b> <i>Chair:</i> Arthur R. Friedman</p> <p><a href="#">Addressing Low Base Rates in Intrusion Detection via Uncertainty-Bounding Multi-Step Analysis</a> Robert Cole, Peng Liu</p> <p><a href="#">Toward Automatic Generation of Intrusion Detection System Verification Rules</a> Frédéric Massicotte, Yvan Labiche, Lionel Briand</p> <p><a href="#">STILL: Exploit Code Detection via Static Taint and Initialization</a> Xinran Wang, Yoon-Chan Jhi, Sencun Zhu, Peng Liu</p>	<p><b>Track C. Case Studies</b></p> <ul style="list-style-type: none"> <li>• <i>Security Content Automation</i>, John Banghart, Booz Allen Hamilton</li> <li>• <i>FISMA compliance for Federal agencies and commercial entities within a single, holistic, IA management framework</i>, Richard Wilsher, Zygma, LLC</li> <li>• <i>Cryptographic Modernization for SPACE</i>, Joe Bull, Booz Allen Hamilton</li> </ul>
12:00-13:15	<b>Lunch</b>		
13:15-14:45	<p><b>Track A. Refereed Papers [Malware and Data Protection]</b> <i>Chair:</i> Anas Abou El Kalam</p> <p><a href="#">McBoost: Boosting Scalability in Malware Collection and Analysis Using Statistical Classification of Executables</a> Roberto Perdisci, Andrea Lanzi, Wenke Lee</p> <p><a href="#">MalTRAK: Tracking and Eliminating Unknown Malware</a> Amit Vasudevan</p> <p><a href="#">Preventing information leaks through shadow execution</a> Capizzi Roberto, Antonio Longo, V.N. Venkatakrishnan, A. Prasad Sistla</p>	<p><b>Track B. Panel</b> <i>Security and Privacy in an Expanding Cyber World</i>, Dr. Frank L. Greitzer (Co-chair), Pacific Northwest National Laboratory, and Dr. Barbara Endicott-Popovsky (Co-chair), University of Washington (UW) Center for Information Assurance and Cybersecurity; Dr. Deborah A. Frincke, Pacific Northwest National Laboratory; John R. Christiansen, Christiansen IT Law; Dr. Robert M. Mason, UW iSchool; David Aucsmith, Microsoft</p>	<p><b>Track C. Case Studies</b> Overview of Federal Government Software Assurance Initiatives, Joe Jarzombek, Director for Software Assurance, National Cyber Security Division, Department of Homeland Security; Major Michael Klefman, Chief Technology Officer, Application Software Assurance, USAF 754 ELSG/DOC; Sean Barum, Principal Consultant, Cigital; Dan Wolf, Director, Software Assurance Consortium</p>
14:45-15:15	<b>Break</b>		

15:15-16:45	<p><b>Track A. Refereed Papers [Web-based Applications Security]</b>  <i>Chair:</i> Robert H'obbes' Zakon  <a href="#">XSSDS: Server-side detection of cross-site scripting attacks</a>                  Martin Johns, Engelmann Bjoern, Joachim Posegga  <a href="#">Anti-Phishing in Offense and Defense</a>                  Chuan Yue, Haining Wang  <a href="#">Design and Implementation of an Open Framework for Secure Communication in Mashup</a>                  Saman Zarandioon, Danfeng Yao, Vinod Ganapathy</p>	<p><b>Track B. Refereed Papers [Anomaly and Misuse Detection]</b>  <i>Chair:</i> Carrie Gates  <a href="#">Behavior-Profile Clustering For False Alert Reduction in Anomaly Detection Sensors</a>                  Vanessa Frias-Martinez, Salvatore J. Stolfo, Angelos D. Keromytis  <a href="#">Network-Based Bluetooth Misuse Detection</a>                  Terrence OConnor, Douglas Reeves  <a href="#">Bridging the Gap between Data-flow and Control-flow Analysis for Anomaly Detection</a>                  Peng Li, Hyundo Park, Debin Gao, Jianming Fu</p>	<p><b>Track C. Case Studies</b></p> <ul style="list-style-type: none"> <li>• <i>Lessons Learned in Security Measurement</i>, Nadya Bartol, Brian Bates, Booz Allen Hamilton</li> <li>• <i>Ritz Camera Center Achieves Picture-Perfect Security</i>, Tom Murphy, Chief Strategist, Bit9</li> <li>• <i>Malicious Control System Cyber Security Attack Case Study -- Maroochy Water Services, Australia</i>, Marshall Abrams, MITRE</li> </ul>
16:45-17:15	<b>Break</b>		
17:15-18:30	<p><b>Special Feature Panel</b>  <a href="#">Lessons Learned In Election Technology From The 2008 Elections</a>, Jeremy Epstein (Chair), Cigital; Dr. Barbara Simons, past ACM President; Dr. David Wagner, UC Berkeley; Dr. Alec Yasinsac, Univ. of South Alabama</p>	<b>Works in Progress</b>	

**Friday, 12 December 2008**

8:30-10:00	<p><b>Classic Papers</b>  <i>Chair:</i> Jeremy Epstein  <a href="#">Seventeen Years -- Network Security is even worse than a plague of locusts</a>, Barbara Y. Fraser, Director of Corporate Consulting Engineering, Cisco Systems, and Stephen D. Crocker, CEO, Shinkuro, Inc.  <a href="#">System Call Monitoring Revisited</a>, Stephanie Forrest, University of New Mexico, Steven Hofmeyr, and Anil Somayaji</p>		
10:00-10:30	<b>Break</b>		
10:30-12:00	<p><b>Track A. Refereed Papers [Authentication]</b>  <i>Chair:</i> Jay Kahn  <a href="#">PAS: Predicate-based Authentication Services Against Powerful Passive Adversaries</a>                  Xiaole Bai, Wenjun Gu, Xun Wang, Sriram Chellappan, Dong Xuan  <a href="#">pwdArmor: Protecting Conventional Password-based Authentications</a>                  Timothy van der Horst, Kent Seamons  <a href="#">DARE: A FRAMEWORK FOR DYNAMIC AUTHENTICATION OF REMOTE EXECUTIONS</a>                  Erdem Aktas, Kanad Ghose</p>	<p><b>Track B. Refereed Papers [Applied Cryptography]</b>  <i>Chair:</i> Hongxia Jin  <a href="#">Instruction Set Extensions for Enhancing the Performance of Symmetric-Key Cryptography</a>                  Sean O'Melia, Adam Elbirt  <a href="#">A Survey to Guide Group Key Protocol Development</a>                  Ahren Studer, Christina Johns, Jaanus Kase, Kyle O'Meara, Lorrie Cranor  <a href="#">Transaction oriented text messaging with Trusted-SMS</a>                  Antonio Grillo, Alessandro Lentini, Gianluigi Me, Giuseppe F. Italiano</p>	<p><b>Track C. Case Studies</b></p> <ul style="list-style-type: none"> <li>• <i>Assuring Information in the Longer Term</i>, Ian Bryant, UK Government</li> <li>• <i>Secured Database, Secured Revenue: How Going Above Traditional Security Raised Attraction World's Customer Base</i>, Paul Davie, Secerno</li> <li>• <i>Data Leak Prevention: Don't Miss the Big Picture</i>, Victor Lee, Trend Micro</li> </ul>
12:00-16:00	<b>Optional Social Event (includes lunch)</b>		