

Annual Computer Security Applications Conference (ACSAC) 2008

OpenConf Conference Management System

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Full Program

Monday, 8 December 2008

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

8:30-17:00	T4. Tutorial - CANCELLED Acquisition and Analysis of Large Scale Network Data V.4 , Dr. John McHugh, Dalhousie University	T5. Tutorial Web Services Security, Techniques and Challenges , Dr. Anoop Singhal, NIST, and Mr. Gunnar Peterson, Arctec Group
8:30-16:30	Workshop Virtualization Security	
8:30-12:00	T6. Tutorial Web Injection Attacks , Dr. V. N. Venkatakrishnan, University of Illinois at Chicago	
13:30-17:00	T7. Tutorial Multi-perspective Application Security Risk Analysis: A Toolbox Approach , 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	Welcome Reception	

Wednesday, 10 December 2008

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

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

Thursday, 11 December 2008

8:30-8:45	Opening Remarks		
8:45-10:00	Distinguished Practitioner <i>Chair:</i> Christoph Schuba Insecurity in a Web-Services World , Whitfield Diffie, Sun Microsystems, Inc.		
10:00-10:30	Break		
10:30-12:00	Track A. Refereed Papers [Role-based Access Control] <i>Chair:</i> Lillian Røstad The Role Hierarchy Mining Problem: Discovery of Optimal Role Hierarchies Qi Guo, Jaideep Vaidya, Vijayalakshmi Atluri Permission Set Mining: Discovering Practical and Useful Roles Dana Zhang, Kotagiri Ramamohanarao, Tim Ebringer, Trevor Yann Towards Enforcing Role-Based Access Control Policies in Web Services with UML and OCL Sohr Karsten, Mustafa Tanveer, Ahn Gail-Joon, Xinyu Bao	Track B. Refereed Papers [Intrusion Detection] <i>Chair:</i> Arthur R. Friedman Addressing Low Base Rates in Intrusion Detection via Uncertainty-Bounding Multi-Step Analysis Robert Cole, Peng Liu Toward Automatic Generation of Intrusion Detection System Verification Rules Frédéric Massicotte, Yvan Labiche, Lionel Briand STILL: Exploit Code Detection via Static Taint and Initialization Xinran Wang, Yoon-Chan Jhi, Sencun Zhu, Peng Liu	Track C. Case Studies <ul style="list-style-type: none"> • <i>Security Content Automation</i>, John Banghart, Booz Allen Hamilton • <i>FISMA compliance for Federal agencies and commercial entities within a single, holistic, IA management framework</i>, Richard Wilsher, Zygma, LLC • <i>Cryptographic Modernization for SPACE</i>, Joe Bull, Booz Allen Hamilton
12:00-13:15	Lunch		
13:15-14:45	Track A. Refereed Papers [Malware and Data Protection] <i>Chair:</i> Anas Abou El Kalam McBoost: Boosting Scalability in Malware Collection and Analysis Using Statistical Classification of Executables Roberto Perdisci, Andrea Lanzi, Wenke Lee MalTRAK: Tracking and Eliminating Unknown Malware Amit Vasudevan Preventing information leaks through shadow execution Capizzi Roberto, Antonio Longo, V.N. Venkatakrishnan, A. Prasad Sistla	Track B. Panel Security and Privacy in an Expanding Cyber World , 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	Track C. Case Studies 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
14:45-15:15	Break		

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

Friday, 12 December 2008

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