

# 20<sup>th</sup> IFIP World Computer Congress

Milano, Italy 7-10 September 2008

TC11 Conference on  
SEC 2008 – IFIP SEC



## Programme

Monday, September 8 <sup>th</sup> 2008	
9:15-09.30	<b>Welcome and Opening</b>
09.30-10.30	<b>Invited talk</b> <i>Francesco Pizzetti</i> <i>President of the Italian Data Protection Authority</i>
10.30-11.00	<b>Coffee Break</b>
11.00-12.30	<b>Session 1: Privacy Protection</b> <b>Chair: Yves Deswarte</b>  <b>Hiding in Groups: On the Expressiveness of Privacy Distributions</b> <i>Karsten Nohl and David Evans</i>  <b>Practical Privacy-Preserving Benchmarking</b> <i>Florian Kerschbaum</i>  <b>Enhancing Privacy in Remote Data Classification</b> <i>Alessandro Piva, Michele Caini, Tiziano Bianchi, Claudio Orlandi, and Mauro Barni</i>
	<b>Session 2: Web Applications Security and Malware</b> <b>Chair: TBA</b>  <b>Minimizing SSO Effort in Verifying SSL Anti-phishing Indicators</b> <i>Yongdong WU, Haixia Yao, and Bao Feng</i>  <b>Robbing Banks with Their Own Software-an Exploit against Norwegian Online Banks</b> <i>Yngve Espelid, Lars-Helge Netland, André N. Klingsheim, and Kjell Jørgen Hole</i>  <b>Collaborative architecture for malware detection and analysis</b> <i>Michele Colajanni, Daniele Gozzi, and Mirco Marchetti</i>
12.30-14.30	<b>Lunch</b>
14:30-16:00	<b>Session 3: Sensor and Wireless Security</b> <b>Chair: Jaap-Henk Hoepman</b>  <b>Realizing Stateful Public Key Encryption in Wireless Sensor Network</b> <i>Joonsang Baek, Han Chiang Tan, Jianying Zhou, and Jun Wen Wong</i>  <b>Establishing secure links in low-rate wireless personal area networks</b> <i>Maurizio Adriano Strangio</i>  <b>An Asynchronous Node Replication Attack in Wireless Sensor Networks</b> <i>Jianying Zhou, Tanmoy Kanti Das, and Javier Lopez</i>



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	<p style="text-align: center;"><b>Session 4: Security Policies</b> Chair: <i>Yuko Murayama</i></p> <p><b>A B Formal Framework for Security Developments in the Domain of Smart Card Applications</b> <i>Frederic Dadeau, Marie-Laure Potet, and Regis Tissot</i></p> <p><b>An Implementation of a Privacy Enforcement Scheme based on the Java Security Framework using XACML Policies</b> <i>Thomas Scheffler, Stefan Geiss, and Bettina Schnor</i></p> <p><b>Negotiation of Prohibition: An approach Based on Policy Rewriting</b> <i>Nora Cuppens-Bouahia, Frédéric Cuppens, Diala Abi Haidar, and Hervé Debar</i></p>
16:00-16:30	<b>Coffee Break</b>
16:30-18:00	<p style="text-align: center;"><b>Session 5: Access Control in Distributed Systems</b> Chair: <i>TBA</i></p> <p><b>An Integrity Lock Architecture for Supporting Distributed Authorizations in Database Federations</b> <i>Wei Li, Lingyu Wang, Bo Zhu, and Lei Zhang</i></p> <p><b>Role Signatures for Access Control in Open Distributed Systems</b> <i>Jason Crampton and Hoon Wei Lim</i></p> <p><b>Policies and Security Aspects For Distributed Scientific Laboratories</b> <i>Ramachandriya Amarnath Balachandar, Nicoletta Dessì, and Maria Grazia Fugini</i></p>
	<p style="text-align: center;"><b>Session 6: Intrusion Detection</b> Chair: <i>TBA</i></p> <p><b>A Fuzzy Model for the Composition of Intrusion Detectors</b> <i>Inez Ragueneat and Carlos Maziero</i></p> <p><b>Investigating the problem of IDS false alarms: An experimental study using Snort</b> <i>Gina Tjhai, Maria Papadaki, Steven Furnell, and Nathan Clarke</i></p> <p><b>User Session Modeling for Effective Application Intrusion Detection</b> <i>Kapil Kumar Gupta, Baikunth Nath, and Kotagiri Ramamohanarao</i></p>
<b>Tuesday, September 9<sup>th</sup> 2008</b>	
09.00-10.30	<p><b>Invited Talk</b> <i>TBA</i></p>
10.30-11.00	<b>Coffee Break</b>
11.00-12.30	<p style="text-align: center;"><b>Session 7: Anomaly Detection</b> Chair: <i>TBA</i></p> <p><b>A Product Machine Model for Anomaly Detection of Interposition Attacks on Cyber-Physical Systems</b> <i>Carlo Bellettini and Julian L. Rrushi</i></p> <p><b>Anomaly Detection with Diagnosis in Diversified Systems using Information Flow Graphs</b> <i>Frédéric Majorczyk, Eric Totel, Ludovic Mé, and Ayda Saidane</i></p> <p><b>Behavioral Intrusion Detection Indicators</b> <i>Jacques Saraydaryan, Luc Paffumi, Véronique Legrand, and Stéphane Ubéda</i></p>

	<p align="center"><b>Session 8: Role Mining and Content Protection</b> Chair: <i>TBA</i></p> <p><b>Leveraging Lattices to Improve Role Mining</b> <i>Alessandro Colantonio, Roberto Di Pietro, and Alberto Ocello</i></p> <p><b>A Parallelization Framework for Exact Knowledge Hiding in Transactional Databases</b> <i>Aris Gkoulalas-Divanis and Vassilios S. Verykios</i></p> <p><b>Efficient Coalition Detection in Traitor Tracing</b> <i>Hongxia Jin, Jeffery Lotspiech, and Nimrod Megiddo</i></p>
<b>12.30-14.30</b>	<b>Lunch</b>
<b>14.30-16.00</b>	<p align="center"><b>Session 9: VoIP and Network Security</b> Chair: <i>TBA</i></p> <p><b>SPIT Identification Criteria Implementation: Effectiveness and Lessons Learned</b> <i>S. Dritsas, Y. Soupionis, M. Theoharidou, Y. Mallios, and D. Gritzalis</i></p> <p><b>Detecting More SIP Attacks on VoIP Services by Combining Rule Matching and State Transition Models</b> <i>Dongwon Seo, Heejo Lee, and Ejovi Nuwere</i></p> <p><b>A Decentralized Bayesian Attack Detection Algorithm for Network Security</b> <i>Kien C. Nguyen, Tansu Alpcan, and Tamer Basar</i></p>
	<p align="center"><b>Session 10: Network Devices Security and Cyber Warfare</b> Chair: <i>Dimitris Gritzalis</i></p> <p><b>An Operation-Based Metric for DPA Resistance</b> <i>Jing Pan, Jerry den Hartog, and Erik de Vink.</i></p> <p><b>YASIR: A Low-Latency, High-Integrity Security Retrofit for Legacy SCADA Systems</b> <i>Patrick P. Tsang and Sean W. Smith</i></p> <p><b>Adversary Modeling and Simulation in Cyber Warfare</b> <i>Sam Hamilton and Wendy Hamilton</i></p>
<b>16.00-16.30</b>	<b>Coffee Break</b>
<b>16.30-18.00</b>	<p align="center"><b>Session 11: Short papers</b> Chair: <i>TBA</i></p> <p><b>HoneyID : Unveiling Hidden Spywares by Generating Bogus Events</b> <i>Jeheon Han, Jonghoon Kwon, and Heejo Lee</i></p> <p><b>A Security Protocol for Self-Organizing Data Storage</b> <i>Nouha Oualha, Melek Önen, and Yves Roudier</i></p> <p><b>Protecting Financial Institutions from Brute-Force Attacks</b> <i>Cormac Herley and Dinei Florencio</i></p> <p><b>Agency Theory: Can it be used to strengthen IT Governance?</b> <i>Shaun Posthumus and Rossouw von Solms</i></p> <p><b>A new Accounting Mechanism for Modern and Future AAA Services</b> <i>Alexandros Tsakountakis, Georgios Kambourakis, and Stefanos Gritzalis</i></p> <p><b>A user survey on the sense of security, Anshin</b> <i>Yasuhiro Fujihara, Yuko Murayama, and Kentarou Yamaguchi</i></p>

	<p style="text-align: center;"><b>Session 12: Short papers</b> Chair: <i>TBA</i></p> <p><b>Multi-Layer Encryption for Multi-Level Access Control in Wireless Sensor Networks</b> <i>Po-Yuan Teng, Shih-I Huang, and Adrian Perrig</i></p> <p><b>A Comparative Study of Anomaly Detection Techniques in Web Site Defacement Detection</b> <i>Giorgio Davanzo, Eric Medvet, and Alberto Bartoli</i></p> <p><b>Managing the lifecycle of XACML delegation policies in federated environments</b> <i>Manuel Sánchez, Oscar Cánovas, Gabriel López, and Antonio F. Gómez-Skarmeta</i></p> <p><b>Assessing the Likelihood of Privacy Policy Compliance</b> <i>George O.M. Yee, Larry Korba, and Ronggong Song</i></p> <p><b>Classification features for detecting Server-side and Client-side Web attacks</b> <i>Karim Tabia and Salem Benferhat</i></p>
<b>Wednesday, September 10<sup>th</sup> 2008</b>	
<b>09.00-10.30</b>	<p style="text-align: center;"><b>Session 13: Security Compliance</b> Chair: <i>TBA</i></p> <p><b>Interactive Selection of ISO 27001 Controls under Multiple Objectives</b> <i>Thomas Neubauer, Stefan Fenz, and Andreas Ekelhart</i></p> <p><b>Feasibility of Automated Information Security Compliance Auditing</b> <i>Mark A. Branagan, William J Caelli, Lam-for Kwok, and Dennis Longley</i></p> <p><b>Software Licence Protection and Management for Organisations</b> <i>Muntaha Alawneh and Imad M. Abbadi</i></p>
	<p style="text-align: center;"><b>Session 14: Risk and Security Analysis</b> Chair: <i>TBA</i></p> <p><b>A Vulnerability Prioritization System Using A Fuzzy Risk Analysis Approach</b> <i>Maxwell Dondo</i></p> <p><b>ASTRA: A Security Analysis Method Based on Asset Tracking</b> <i>Daniel Le Métayer and Claire Loiseaux</i></p> <p><b>A Knowledge-Based Bayesian Model for Analyzing a System after an Insider Attack</b> <i>Qutaibah Althebyan and Brajendra Panda</i></p>
<b>10.30-11.00</b>	<b>Coffee Break</b>
<b>11.00-12.30</b>	<p style="text-align: center;"><b>Session 15: Identity and Trust Management</b> Chair: <i>TBA</i></p> <p><b>Portable User-Centric Identity Management</b> <i>Gail-Joon Ahn, Moo Nam Ko, and Mohamed Shehab</i></p> <p><b>Ubiquitous Privacy-Preserving Identity Management</b> <i>Kristof Verslype and Bart Dedecker</i></p> <p><b>Facilitating Privacy Related Decisions in Different Privacy Contexts on the Internet By Evaluating Trust in Recipients of Private Data</b> <i>Indrajit Ray and Sudip Chakraborty</i></p>

**Session 16: Virtualization and Digital Forensics**

Chair: *TBA*

**Using Virtualization to Create and Deploy Computer Security Lab Exercises**

*Ronald Dodge, Brian Hay, and Kara Nance*

**DigForNet: Digital Forensic in Networking**

*Slim Rekhis, Jihene Krichene, and Nouredine Boudriga*

**A Live Digital Forensic system for Windows network**

*Roberto Di Pietro, Roberto Battistoni, Alessandro Di Biagio, Matteo Formica, and Luigi V. Mancini*