

MILCOM 2014

TRACK 1 – CYBER SECURITY AND TRUST COMPUTING – Monday 6 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
CST-1	Covert communications and related topics	9:00 AM	Instructions-based Detection of Sophisticated Obfuscation and Packing	Moustafa Saleh; Paul Ratazzi; Shouhuai Xu	Fahimeh Rezaei
		9:25 AM	Leveraging Statistical Feature Points for Generalized Detection of Covert Timing Channels	Pradhumna L Shrestha; Michael Hempel; Fahimeh Rezaei; Hamid Sharif	
		9:50 AM	Evaluation and Verification of Automated Covert Channel Modeling using a Real Network Platform	Fahimeh Rezaei; Michael Hempel; Pradhumna L Shrestha; Hamid Sharif	
		10:35 AM	Ergodic Secrecy Rates of Secure Wireless Communications	Oluwatobi O Olabiyi; Annamalai Annamalai	
		11:00 AM	Comparison of High-end and Low-end Receivers for RF-DNA Fingerprinting	Hiren Patel	
CST-2	Detection and analysis of cyber incidents	9:00 AM	Security Incident Origin Discovery – IP Transaction Tracking for Centralized Cyber Defense	Dylan Pecelli; Brandon Newman	Younghee Park
		9:25 AM	Federated Access to Cyber Observables for Detection of Targeted Attacks	Michael Atighetchi; John Griffith; Ian Emmons; David Mankins; Richard Guidorizzi	
		9:50 AM	An Intrusion Detection Scheme in TCP/IP Networks Based on Flow-Net and Fingerprint	Bo Fu; Yang Xiao	
		10:35 AM	Your WiFi Is Leaking: Ignoring Encryption, Using Histograms to Remotely Detect Skype Traffic	John Stewart Atkinson; John Mitchell; Miguel Rio; George Matich	
		11:00 AM	Automatic Dataset Labelling and Feature Selection for Intrusion Detection Systems	Francisco Javier Aparicio Navarro; Konstantinos G Kyriakopoulos; David Parish	
		11:25 AM	Enhancing Trust-aware Routing by False Alarm DEtection and Recovery	Gang Qu; Youngho Cho	
CST-3	Network protocols and security	2:00 PM	Communities of Trust in Tactical Coalition Networks	Anders Fongen; Mazda Salmanian	Peter Mell
		2:25 PM	Traffic flow confidentiality in federated networks	Ole Ingar Bentstuen; Per Carlen	Harold Zheng
		2:50 PM	Reconfigurable Convolutional Codec for Physical Layer Communication Security Application	Liang Tang; Angelo Ambrose; Sri Parameswaran; Sha Zhu	
		3:35 PM	Dynamically Differentiated Multipath Security in Fixed Bandwidth Networks	James Obert; Inna Pivkina; Hong Huang; Huiping Cao	
		4:00 PM	A DTN Routing Protocol for Vehicle Location Information Protection	Carson Dunbar; Gang Qu	
CST-4	Cyber Operations	2:00 PM	Sharpening the Stinger: Tuning KillerBee for Critical Infrastructure Warwalking	Benjamin W. Ramsey; Barry E. Mullins; William M. Lowder; Ryan Speers	James Cannady
		2:25 PM	Determining the Utility of Cyber Vulnerability Implantation: The Heartbleed Bug as a Cyber Operation	Johan Sigholm; Emil Larsson	
		2:50 PM	The Coordination of Cyber and Kinetic Deception for Operational Effect	David Ormrod	

TRACK 1 – CYBER SECURITY AND TRUST COMPUTING – Tuesday 7 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
CST-5	Modeling, simulation and analysis in support	9:00 AM	National Cyber Range – Overview	Chip Ferguson; Denise Olsen; Anne Tall	George Elmasry
		9:25 AM	General Requirements of a Hybrid-Modeling Framework for Cyber Security	Alessandro Oltramari; Noam Ben-Asher; Lorrie Cranor; Nicolas Christin; Lujo Bauer	
		9:50 AM	Analytical Frameworks to Assess the Effectiveness and Economic>Returns of Cybersecurity Investments	Susmit Patel	
		10:35 AM	Diversity and System Security: A Game Theoretic Perspective	Swastik Brahma; Kevin Kwiat; Pramod Varshney; Charles A Kamhoua	
		11:00 AM	Cost-Aware Network Hardening with Limited Budget using Compact Attack Graphs	Beytullah Yi?it; Gurkan Gur; Fatih Alagoz	
		11:25 AM	Context Model Fusion for Multistage Network Attack Simulation	Stephen Moskal; Ben Wheeler; Derek Kreider; Michael E Kuhl; Shanchieh Jay Yang	
CST-6	Network security management	9:00 AM	Exploring the Disruptive Edge of Coalition Network Management	Todd Burnop; Francis St-Onge; John Haines; Peter George	Anders Fongen
		9:25 AM	Trust Establishment Based on Bayesian Networks for Threat Mitigation in Mobile Ad Hoc Networks	Zhexiong Wei; Helen Tang; F. Richard Yu; Peter C Mason	
		9:50 AM	Towards Anonymous Group Setup across Multiple Domains	Zhijie Wang; Bing Li; Dijiang Huang	
		10:35 AM	demonstration of a Cross Security domain service management capability for federated missions	Ioannis Dimou; Hermann Wietgreffe	
		11:00 AM	Lightweight Packing of Log Files for Improved Compression in Mobile Tactical Networks	Peter Mell; Richard Harang	
		11:25 AM	Dynamic Policy Enforcement using Restriction Set Theoretic Expressions (RSTE)	Syed Yousaf Shah; Boleslaw K Szymanski	
CST-7	Advances in wireless security	2:00 PM	Examining the Effect of Wireless Sensor Network Synchronization on Base Station Anonymity	Jon R. Ward; Mohamed Younis	Wale Akinpelu
		2:25 PM	Identification in Encrypted Wireless Networks Using Supervised Learning	Christopher Swartz; Anupam Joshi	
		2:50 PM	A Metric for Evaluating Base Station Anonymity in Acknowledgement-Based Wireless Sensor Networks	Jon R. Ward; Mohamed Younis	
		3:35 PM	Secure distance indicator leveraging wireless link signatures	Tao Wang; Yao Liu	
		4:00 PM	Analysis and Mitigation of Interference to the LTE Physical Control Format Indicator Channel	Jaber Kakar; Kevin McDermott; Vidur Garg; Marc Lichtman; Vuk Marojevic; Jeffrey Reed	
		4:25 PM	Securing Cognitive Radio Networks with Dynamic Trust against Spectrum Sensing Data Falsification	Yalin E Sagduyu	
CST-8	Identification, Authentication and Access Control	2:00 PM	High Assurance information exchange based on Publish-Subscribe and ABAC methods	Anders Fongen; Federico Mancini	Michael Atighetchi
		2:25 PM	Securing Derived Credentials on a Mobile Device	Thomas S Messerges; Thomas Mihm, Jr.	
		2:50 PM	A Framework for Secure Cloud-Empowered Mobile Biometrics	Aruna Sri Bommagani; Matthew Valenti; Arun Ross	

TRACK 1 – CYBER SECURITY AND TRUST COMPUTING – Wednesday 8 October 2014

Session Code	Session Title	Time	Paper Title	Authors	Session Chair
CST-9	Next generation network security	9:00 AM	Cyber Maneuvers and Maneuver Keys	Don Torrieri	Sherry Wang
		9:25 AM	Untraceable Blind Packet Forwarding using Centralized path control	Youngmi Lee; Younggi Kim; Younghee Lee	
		9:50 AM	Fast, Secure Failover for IP	Saleem N Bhatti; Ditchaphong Phoomikiattisak; Randall Atkinson	
		10:35 AM	Implementation Software To Secure Virtual Machines With Remote Grid of Secure Elements	Aissaoui Mehrez Hassane, AH; Pascal Urien; Guy Pujolle	
CST-10	Assorted topics in creating and managing secure enterprises	2:00 PM	Android Market Reconstruction and Analysis	Matthew Dering; Patrick McDaniel	Deborah Farroha
		2:25 PM	Using Security Logs for Collecting and Reporting Technical Security Metrics	Risto Vaarandi; Mauno Pihelgas	
		2:50 PM	A Framework for Managing Mission needs, compliance and Trust in the DevOps Environment	Bassam S Farroha; Deborah Farroha	