

Preliminary Program (IFIP SEC 2017)

Monday May 29th 2017

08:00 - 08:50	Registration
08:50 - 09:00	Opening
09:00 - 10:00	Keynote: Jan Camenisch, IBM: <i>Cryptography for People</i>
10:00 - 10:30	Coffee Break
10:30 - 12:35	SESSION 1 - Network security and cyber attacks (session chair: Javier Lopez) Wilfried Mayer and Martin Schmiedecker <i>Turning Active TLS Scanning to Eleven</i> Tulio A. Pascoal, Yuri Gil Dantas, Iguatemi E. Fonseca and Vivek Nigam <i>Slow TCAM Exhaustion DDoS Attack</i> Gheorghe Hajmasan, Alexandra Mondoc, Radu Portase, Octacian Cret <i>Evasive Malware Detection using Groups of Processes</i> Michael Denzel, Mark Ryan and Eike Ritter <i>A Malware-Tolerant, Self-Healing Industrial Control System Framework</i> David Myers, Kenneth Radke, Suriadi Suriadi and Ernest Foo <i>Process Discovery for Industrial Control System Cyber Attack Detection</i>
12:35 - 14:00	Lunch Break
14:00 - 15:40	SESSION 2 - Security and privacy in social applications and cyber attacks defense (session chair: Yazan Boshmaf) Pablo Picazo-Sanchez, Raul Pardo and Gerardo Schneiderz <i>Secure Photo Sharing in Social Networks</i> Lin Yuan, Joel Theytaz and Touradj Ebrahimi <i>Context-Dependent Privacy-Aware Photo Sharing based on Machine Learning</i> Khondker Jahid Reza, Md Zahidul Islam and Vladimir Estivill-Castro <i>3LP: Three Layers of Protection for Individual Privacy in Facebook</i> Vasiliki Diamantopoulou, Christos Kalloniatis, Stefanos Gritzalis and Haralambos Mouratidis <i>Supporting Privacy by Design using Privacy Process Patterns</i>
15:40 - 16:10	Coffee Break
16:10 - 17:25	SESSION 3 - Private queries and aggregations (session chair: Kai Rannenberg) Ruben Rios, David Nunez and Javier Lopez <i>Query Privacy in Sensing-as-a-Service Platforms</i> Hafiz Asif, Jaideep Vaidya, Basit Shafiq and Nabil Adam <i>Secure and Efficient k-NN Queries</i> Stephane Grumbach, Robert Riemann <i>Secure and Trustable Distributed Aggregation based on Kademlia</i>
18:15	Bus transfer to the Casina Valadier

19:30 - 23:00	Concert and Social Dinner
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Tuesday May 30th 2017

09:00 - 10:00	Keynote (Kristian Beckman Award): Gene Spafford, <i>Purdue University</i>: Reflections on the state of cyber security
10:00 - 10:30	Coffee Break
10:30 - 12:35	SESSION 4 - Operating system and firmware security (session chair: Bruno Crispo) Warren J. Connell, Massimiliano Albanese and Sridhar Venkatesan <i>A Framework for Moving Target Defense Quantification</i> Mariem Graa, Nora Cuppens, Frederic Cuppens, Jean-Louis Lanet and Routa Moussaileb <i>Detection of Side Channel Attacks based on Data Tainting in Android Systems</i> Minsik Shin, JungBeen Yu, Youngjin Yoon and Taekyoung Kwon <i>The Fuzzing Awakens: File Format-Aware Mutational Fuzzing on Smartphone Media Server Daemons</i> Andrei Costin, Apostolis Zarras and Aurelien Francillon <i>Towards Automated Classification of Firmware Images and Identification of Embedded Devices</i> Andreas Fuchs, Christoph Krauß and Jürgen Repp <i>Runtime Firmware Product Lines using TPM2.0</i>
12:35 - 14:00	Lunch Break
14:00 - 15:40	SESSION 5 - User authentication and policies (session chair: Frederic Cuppens) Lydia Kraus, Robert Schmidt, Marcel Walch, Florian Schaub and Sebastian Moller <i>On the Use of Emojis in Mobile Authentication</i> David Lorenzi, Jaideep Vaidya, Achyuta Aich, Shamik Sural, Vijay Atluri and Joseph Calca <i>EmojiTCHA: Using Emotion Recognition to Tell Computers and Humans Apart</i> Umberto Morelli and Silvio Ranise <i>Assisted Authoring, Analysis and Enforcement of Access Control Policies in the Cloud</i> Joseph Hallett and David Aspinall <i>Capturing Policies for BYOD</i>
15:40 - 16:10	Coffee Break
16:10 - 17:50	SESSION 6 - Applied cryptography and voting schemes (session chair: Joachim Posegga) Jean-Francois Couchot, Raphael Couturier and Michel Salomon <i>Improving Blind Steganalysis in Spatial Domain using a Criterion to Choose the Appropriate Steganalyzer between CNN and SRM+EC</i> Lina Nouh, Ashkan Rahimian, Djedjiga Mouheb, Mourad Debbabi and Aiman Hanna <i>BinSign: Fingerprinting Binary Functions to Support Automated Analysis of Code Executables</i> Cecilia Pasquini, Pascal Schoettle and Rainer Boehme <i>Decoy Password Vaults: At Least As Hard As Steganography?</i> Stephan Neumann, Manuel Noll and Melanie Volkamer <i>Election-Dependent Security Evaluation of Internet Voting Schemes</i>
18:15 - 21:15	Tour of Rome by Bus

Wednesday May 31st 2017

09:00 - 10:00	Keynote Roberto Di Pietro, Nokia Bell Labs: <i>Unleashing e-health potential: security and architectural issues</i>
10:00 - 10:30	Coffee Break
10:30 - 12:35	SESSION 7 - Software security and privacy (session chair: Bart De Decker) Julian Kirsch, Clemens Jonischkeit, Thomas Kittel, Apostolis Zarras and Claudia Eckert <i>Combating Control Flow Linearization</i> Jeffrey Avery and Eugene H. Spafford <i>Ghost Patches: Fake Patches for Fake Vulnerabilities</i> Hongfa Xue, Yurong Chen, Fan Yao, Yongbo Li, Tian Lan and Guru Venkataramani <i>SIMBER: Eliminating Redundant Memory Bound Checks via Statistical Inference</i> Rene Meis and Maritta Heisel <i>Towards Systematic Privacy and Operability (PRIOP) Studies</i> Thibaud Antignac, David Sands and Gerardo Schneider <i>Data Minimisation: a Language-Based Approach</i>
12:35 - 14:00	Lunch Break
14:00 - 15:40	SESSION 8 - Privacy (session chair: Yuko Murayama) Jun Wang and Qiang Tang <i>Differentially Private Neighborhood-based Recommender Systems</i> Somayeh Taheri, Md Morshedul Islam and Reihaneh Safavi-Naini <i>Privacy-enhanced Profile-based Authentication using Sparse Random Projection</i> Edoardo Serra, Jaideep Vaidya, Haritha Akella and Ashish Sharma <i>Evaluating the Privacy Implications of Frequent Itemset Disclosure</i> Roberto Di Pietro, Federico Franzoni and Flavio Lombardi <i>HyBIS: Advanced Introspection for Effective Windows Guest Protection</i>
15:40 - 16:10	Coffee Break
16:10 - 17:50	SESSION 9 - Digital Signature, risk management, and code reuse attacks Jihye Kim and Hyunok Oh <i>Forward-Secure Digital Signature Schemes with Optimal Computation and Storage of Signers</i> Alessio Merlo and Gabriel Claudiu Georgiu <i>RiskInDroid: Machine Learning-based Risk Analysis on Android</i> Ahmed Seid Yesuf, Jetzabel Serna-Olvera and Kai Rannenberg <i>Using Fraud Patterns for Fraud Risk Assessment of E-services</i> Liwei Chen, Mengyu Ma, Wenhao Zhang, Gang Shi and Dan Meng <i>Gadget Weighted Tagging: A Flexible Framework to Protect Against Code Reuse Attacks</i>
17:50 - 18:00	IFIP SEC Best Student Paper Award and Closing

WISE 10 Provisional Programme

Monday May 29th 2017

08:00 - 08:50	Registration
08:50 - 10:00	Joint Program with IFIP SEC
10:00 - 10:30	Coffee Break
10:30 - 12:20	<p>SESSION 1 - Information Security Training Chair: Lynn Futchner</p> <p>Lynn Futchner <i>Welcome by IFIP WG 11.8 Chair</i></p> <p>Natalia Miloslavskaya and Alexander Tolstoy <i>ISO/IEC Competence Requirements for Information Security Professionals</i></p> <p>Lynette Drevin, Hennie Kruger, Anna-Marie Bell and Tjaart Steyn <i>A linguistic approach to information security awareness education in a healthcare environment</i></p> <p>Thando Mabece, Lynn Futchner and Kerry-Lynn Thomson <i>South African Computing Educators' Perspectives on Information Security Behaviour</i></p> <p>Konstantin Kogos and Sergey Zapechnikov <i>Studying Formal Security Proofs for Cryptographic Protocols</i></p>
12:35 - 14:00	Lunch Break
14:00 - 16:00	<p>SESSION 2 - Cybersecurity Training Chair: Natalia Miloslavskaya</p> <p>Keynote: Louise Yngstrom (Founder of WISE Conference)</p> <p>Noluxolo Gcaza and Rossouw Von Solms <i>Cybersecurity Culture: An ill-defined Problem</i></p> <p>Susanne Wetzel <i>Pathways in Cybersecurity: Translating Theory into Practice</i></p> <p>Erik Moore, Dan Likarish and Steven Fulton <i>Evaluating a Multi-Agency Cyber Security Training Program Using Pre-Post event assessment and Longitudinal Analysis</i></p>
16:00 - 16:10	Break
16:10 - 23:00	Joint Program with IFIP SEC

Tuesday May 30th 2017

09:00 - 10:00	Joint Program with IFIP SEC
10:00 - 10:30	Coffee Break
10:30 - 12:35	<p>SESSION 3 - Education and Training Chair: Lynette Drevin</p> <p>Odwa Yekela, Kerry-Lynn Thomson and Johan van Niekerk <i>Assessing the Effectiveness of the Cisco Network Academy Program in Developing Countries</i></p>

	<p>Matt Bishop, Melissa Dark, Ida Ngambeki, Jun Dai, Phillip Nico and Minghua Zh <i>Evaluating Secure Programming Knowledge</i></p> <p>Elmarie Kritzinger, Maria Bada and Jason Nurse <i>A study into the cybersecurity awareness initiatives for school learners in South Africa and the UK</i></p> <p>Natalia Miloslavskaya and Alexander Tolstoy <i>Designing Degree Programmes for Bachelors and Masters in Information Security</i></p> <p>Matt Bishop, Diana Burley, Scott Buck, Joseph Ekstrom, Lynn Fatcher, David Gibson, Elizabeth Hawthorne, Siddharth Kaza, Yair Levy, Herbert Mattord and Allen Parrish <i>Cybersecurity Curricular Guidelines</i></p>
12:35 - 14:00	Lunch Break
14:00 - 16:00	<p>SESSION 4 - Network Security Education Chair: Erik Moore</p> <p>Stig Mjolsnes and Ruxandra F. Olimid <i>Introducing Mobile Network Security Experiments to Communication Technology Education</i></p> <p>Natalia Miloslavskaya, Alexander Tolstoy and Anton Migalin <i>"Network Security Intelligence" Educational and Research Center</i></p> <p>Matt Bishop, Diana Burley and Lynn Fatcher <i>Workshop on the ACM Joint Task Force Cybersecurity Curricular Guidelines – Phase 1</i></p>
16:00 - 17:50	Joint Program with IFIP SEC
19:00 - 23:00	Informal Wise Dinner

Wednesday May 31st 2017

09:00 - 10:00	Joint Program with IFIP SEC
10:00 - 10:30	Coffee Break
10:30 - 11:30	<p>Matt Bishop, Diana Burley and Lynn Fatcher <i>Workshop on the ACM Joint Task Force Cybersecurity Curricular Guidelines – Phase 2</i></p>
11:30 - 11:40	Closing of WISE10
11:40 - 13:00	IFIP WG 11.8 AGM and Strategic Planning Workshop (IFIP WG11.8 members)
13:00 - 14:00	Lunch Break

iNetSec 2017 Program

The following is the iNetSec program.

Wednesday May 31st 2017

12:35 - 14:00	Lunch Break
14:00 - 15:40	SESSION 1 - Network Vladimir Oleshchuk <i>Trust-Aware Security for Disruption-Tolerant Networks</i> Sadaf Momeni, Tooska Dargahi and Hossein Shafiei <i>Post Disaster Resilient Networks: Design Guidelines for Rescue Operations</i> Alfonso de La Rocha and Panos Papadimitratos <i>Blockchain-based Public Key Infrastructure for Inter-Domain Secure Routing</i>
15:40 - 16:10	Coffee Break
16:10 - 17:15	SESSION 2 - Privacy Stig F. Mjolsnes and Ruxandra F. Olimid <i>The Challenge of Private Identification</i> Yudhistira Nugraha and Andrew Martin <i>Understanding Security-related SLAs as Trust-Enhancing Instruments: Concepts, Approaches and Open Research Issues</i>

NeCS Program

The following is the NeCS program.

Monday May 29th 2017

08:00 - 08:50	Registration
08:50 - 10:00	Joint Program with IFIP SEC
10:00 - 10:30	Coffee Break
10:30 - 12:35	SESSION 1 - Risk management for Cyber-security Ganbayar Uuganbayar <i>Risk assessment for cyber-insurance</i> Salman Manzoor <i>Security risk measurement & SLAs</i> Sandeep Gupta <i>Attack vectors & cyber-threats</i> Oleksii Osliak <i>Dynamic threat assessment & prediction</i> Wagner Medeiros dos Santos <i>Risk Metrics for vulnerabilities</i>
12:35 - 14:00	Lunch Break

14:00 - 15:00	Invited Talk: Afonso Ferreira: <i>Strategic thinking in information security</i>
15:00 - 15:40	SESSION 2 - Cyber-security Operations Systems & Services Davide Ferraris <i>Trust metrics for cyber-security</i> Imad Mahaini <i>Modelling and analysing trust and influence in social networks</i>
15:40 - 16:10	Coffee Break
16:10 - 17:30	SESSION 3 - Cyber-security intelligence and information sharing Mario Faiella <i>Intelligence & incident information sharing</i> Athanasios Rizos <i>Usage control for information sharing</i> Martin Kolar <i>Trustworthy information exchange</i> Adham Albakri <i>Privacy - and Secrecy - preserving, Secure Processing of Big-Data / EU policy compliance</i>
17:30 - 18:00	Final Discussion