SIN 2009

2nd International Conference on Security of Information and Networks

Program for the 2nd International Conference on Security of Information and Networks

Intelligent Systems for Information Assurance, Security, and Public Policy in the Age of e-Euphoria

6 – 10 October 2009

Salamis Bay Conti Resort Hotel
Famagusta, North Cyprus

acm SIGSAC

ORGANIZED BY

Dept. of Computer Engineering
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Gazimagusa, North Cyprus

Dept. of Security of Information Technologies, South-Russian Regional Scientific-Educational Center for Information Security Problems, Southern Federal University, Taganrog, Rostov, Russia

Information and Networked Systems Security (INSS) & The Intelligent Systems Group (ISG), Dept. of Computing Macquarie University Sydney, Australia

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SIN 2010: Taganrog, Rostov, Russia

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SIN 2009 CONFERENCE PROGRAM

rev. 08/10/09

October 7			October 8			October 9			10 October
time	event		time	Event		time	event		Social Day
8:00	Registration		8:00	Registration		8:00	Registration		(Tours by Minas)
9:00		**Tutorial ID #2 (St. Barnabas)**	9:30	Opening Ceremony		8:30	Keynote: Cayirci Chair: Makarevich		
10:30	Coffee break						Cryptography, security and networks (St. Barnabas)	Attacks, intrusion detection (Kantara)	Access control and security assurance (Akkule)
11:00		**Tutorial ID #2 (cont)**	10:15	Keynote: Bertino Chair: Chefranov		9:30	Callegari~~15s~~, 106s, 78s Chair: Cayirci	22f, 105f Chair: Kotov	35s, 42s, 100s Chair: Unveren
13:00	Break		11:00	Coffee break		~~10:30~~ 10:20	coffee break		
13:30	**Tutorial ID #3 (Kantara)**	**Tutorial ID #4 (St. Barnabas)**		Security assessment, policies, educational programs (St. Barnabas)	Security and integrity management and models (Kantara)	~~11:00~~ 10:40	34f, 47f Chair: Huss	40f, 94f Chair: Babenko	9f, 41f Chair: Zheng
15:00	Coffee break		11:30	23s, 57s, 89s Chair: Bitirim	5s, 7s, 25s, 37fa Chair: Bayram				
15:30	**Tutorial ID #3 (cont)**	**Tutorial ID #4 (cont)**	13:00	Lunch break		~~12:00~~ 11:30	Keynote: Huss Chair: Deniz		
			13:45	50f, 52f Chair: Callegari	46f, 30f Chair: Başar	~~13:00~~ 12:15	Tour & Lunch: St. Barnabas Icon Museum, EMU Campus, Lunch @Tower		
			14:45	Coffee break		~~13:45~~ 14:15	88f, 95f Chair: Kulishov	75f, ~~84f~~ 23s Chair: Singh	44f, 56f Chair: Aybay
			15:15 - 16:45	76f, 90f Chair: Bertino	4f, 67s, Falcovis Chair: Koskinen	~~14:45~~ 15:05	Coffee break		
						~~15:15~~ 15:30 - 17:00	21s, 48fa, 101fa, inv.113 Chair: Salamah	91f, 96fa, 103s Chair: Elçi	Lopez~~79f~~, 93f, 97f Chair: Salah
19:00	Inv. Talk: Makarevic/Babenko Bumper Talk: Cayirci Chair: Bayındır TEKNOPARK RECEPTION Performance by Eliz Fellahoğlu		19:00	Conference Reception Folk Dance Performance		19:00	Banquet (Microsoft TR), Awards, Closing		

Wednesday, October 7, 2009

Salamis Bay Conti Resort Hotel

9:00 – 13:00

Tutorial: Security of Next Generation Networks

Tutor: Serap Atay *(IPSC, Joint Research Center, Italy)*
Location: St. Barnabas
Coffee break at 10:30

13:30 – 18:00

Parallel sessions, coffee break at 15:00

Tutorial: Statistical Approaches for Network Anomaly Detection

Tutor: Christian Callegari *(University of Pisa, Pisa, Italy)*
Location: St. Barnabas

Tutorial: Secrets of Reverse Engineering Software

Tutor: Khaled H. Salah *(King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia)*
Location: Kantara

19:00 – 21:00

Session: Technopark Reception

Session Chair: Suha Bayindir *(GMTGB Gazimagusa Technopark, North Cyprus)*
Location: Amphi @GMTGB Teknopark

Invited Talks:

- **Research and Education Activities of the Department of Security of Information Technologies of Taganrog Institute of Technology of the Southern Federal University in the Field of Information Security**
  Oleg Makarevich, Lyudmila Babenko *(Southern Federal University, Russia)*
- **Security challenges for an education, training and experimentation cloud**
  Erdal Çayırcı *(NATO Joint Warfare Center & University of Stavanger)*

Performance by Eliz Fellahoğlu

Thursday, October 8, 2009

9:30 – 11:00

Opening Session

Presenter: Duygu Çelik *(Eastern Mediterranean University, North Cyprus)*
Location: Ball Room

Conference welcome: Atilla Elçi *(Eastern Mediterranean University, North Cyprus)*
Welcome remarks: Oleg Makarevich *(Southern Federal University, Russia)*
Welcome remarks: Mehmet Orgun *(Macquarie University, Australia)*
Opening remarks: Elisa Bertino *(Chair, ACM SIGSAC, USA)*
Inaugural speech: Ülker Vancı Osam *(Rector, Eastern Mediterranean University, North Cyprus)*
Musical performance: Aleksandr Zabolotkov *(Eastern Mediterranean University, North Cyprus)*
Keynote Speach:
Session Chair: Alexander Chefranov *(Eastern Mediterranean University, North Cyprus)*

Assured Information Sharing — Concepts and Issues
Elisa Bertino *(Purdue University, USA)*

11:00 – 11:30 AM Break
11:30 – 13:00 Parallel Sessions

Session SA.1: Security Assessment, Policies, and Educational Programs

Session Chair: Yiltan Bitirim *(Eastern Mediterranean University, North Cyprus)*
Location: St. Barnabas

- ~~**The Method of Interval Estimation in Risk-Analysis System**~~
  ~~Vladimir M. Shishkin *(Russian Academy of Sciences)*, Sergey V. Savkov *(Saint-Petersburg State University)*~~
- **Pure E-Learning Course in Information Security**
  Jukka A. Koskinen *(Tampere University of Technology)*, Tomi O. Kelo *(Tampere University of Technology)*

- **Turkish National Electronic Identity Card**
  Mücahit Mutlugün, Oktay Adalier *(TÜBİTAK UEKAE)*

Session SI.1: Security and Integrity Management and Models

Session Chair: Zeki Bayram *(Eastern Mediterranean University, North Cyprus)*
Location: Kantara

- **Ensuring Information Security Controls for the Russian Banking Organizations**
  Andrey Kurilo *(The Central Bank of Russia)*, Natalia Miloslavskaya *(State University Moscow)*, Svetlana Tolstaya *(The Central Bank of Russia)*
- **Trace and Revoke Systems with *Short* Ciphertexts**
  Lie Liu, Chun Yuan *(Tsinghua University)*
- **A Model of Mandatory Access for Current Database Management Systems**
  Alexandr S. Basan, Lyudmila K. Babenko, Oleg B. Makarevich *(Southern Federal University, Russia)*
- **An Architectural Approach for Assessing System Trust Based on Security Policy Specifications and Security Mechanisms**
  Şerif Bahtiyar, Murat Cihan, Mehmet Ufuk Çağlayan *(Boğaziçi University)*

13:45 – 14:45 Parallel Sessions

Session SA.2: Security Assessment, Policies, and Educational Programs

Session Chair: Christian Callegari *(University of Pisa, Italy)*
Location: St. Barnabas

- **Improving Risk Assessment Methodology: A Statistical Design of Experiments Approach**
  Anand Singh, David Lilja *(University of Minnesota)*
- **Modeling Network Security Competence for Certification**
  Tomi O. Kelo, Jukka A. Koskinen *(Tampere University of Technology)*

Session SI.2: Security and Integrity Management and Models

Session Chair: Erden Başar *(Eastern Mediterranean University, North Cyprus)*
Location: Kantara

- **A Secure Architecture for P2PSIP-based Communication Systems**
  Xianghan Zheng, Vladimir Oleshchuk *(University of Agder)*
- **A UML Profile for Role-Based Access Control**
  Çağdaş Cirit *(National Research Institute of Electronics and Cryptology)*, Feza Buzluca *(Istanbul Technical University)*

14:45 – 15:15 PM Break
15:15 – 16:45 Parallel Sessions

Session SA.3: Security Assessment, Policies, and Educational Programs

Session Chair: Elisa Bertino *(Purdue University, USA)*
Location: St. Barnabas

- **Adaptability Infrastructure for Bridging IT Security Evaluation and Options Theory**
  Haider Abbas *(Royal Institute of Technology, Sweden)*, Louise Yngström *(Stockholm University)*, Ahmed Hemani *(Royal Institute of Technology, Sweden)*
- **An Information Security Ontology Incorporating Human-Behavioural Implications**
  Simon E. Parkin, Aad van Moorsel *(Newcastle University)*, Robert Coles *(Merrill Lynch Europe Limited)*

Session SI.3: Security and Integrity Management and Models

Session Chair: Jukka Koskinen *(Tampere University of Technology, Finland)*
Location: Kantara

- **Information Security Incident Management Process**
  Anna Kostina, Natalia Miloslavskaya, Alexander Tolstoy *(The Moscow Engineering Physics Institute (State University))*
- **XML-Based Policy Specification Framework for Spatiotemporal Access Control**
  Samrat Mondal, Shamik Sural *(Indian Institute of Technology, Kharagpur)*
- **Falcovis: Data Security in Communication**
  Nurhak Kaya *(Falcovis, North Cyprus)*

17:00 – 18:00

SIN 2010 Organization Meeting
Location: St. Barnabas

All are welcome.

19:00 – 21:00

Conference Reception
Location: Turkuaz, Salamis Bay Conti Resort Hotel
Folk Dance Performance

Friday, October 9, 2009

8:30 – 9:30

Keynote 2 Session

Session Chair: Oleg Makarevich *(Southern Federal University, Russia)*
Location: Ball Room

- **Deployed Sensor Networks and Their Security Challenges in Practice**
  Erdal Çayırcı *(NATO Joint Warfare Center & University of Stavanger)*

9:30 – 10:30 Parallel Sessions

Session CS.1: Cryptography, Security, and Networks

Session Chair: Erdal Çayırcı *(NATO JWC & University of Stavanger, Norway)*
Location: St. Barnabas

- **The Hush Cryptosystem**
  Sari Haj Hussein *(Chalmers University of Technology)*
- **Design of a Zigbee-Based RFID Network for Industry Applications**
  Sumi M *(University of Calicut - India)*, Ebrahim A. Soujeri *(European University of Lefke)*, Rahim Rajan *(Babha Atomic Research Centre)*, Harikrishnan A. I *(University of Calicut)*
- **A Scalable Multi-Core Aware Software Architecture for High-Performance Network Monitoring**
  Mahdi Dashtbozorgi, Mohammad Abdollahi Azgomi *(Iran University of Science and Technology)*
- **Bumper talk:**
  A Novel Method for Skype Traffic Detection and Classification
  Christian Callegari *(University of Pisa)*

Session AI.1: Attacks and Intrusion Detection

Session Chair: Vadim Kotov *(Ural State Aviation Technology University, Russia)*
Location: Kantara

- **A Simple Yet Effective Spam Blocking Method**
  Gokhan Dalkilic, Devrim Sipahi, Mehmet Hilal Ozcanhan *(Dokuz Eylul University)*
- **Resiliency of Open-Source Firewalls against Remote Discovery of Last-Matching Rules**
  Khaled Salah *(King Fahd University of Petroleum and Engineering)*,
  Karim Sattar *(King Fahd University of Petroleum and Minerals)*,
  Zubair Baig *(King Fahd University of Petroleum and Engineering)*,
  Mohammed Sqalli *(King Fahd University of Petroleum and Minerals)*, Prasad Calyam *(The Ohio State University)*

Session AC.1: Access Control and Security Assurance

Session Chair: Ahmet Ünveren *(Eastern Mediterranean University, North Cyprus)*
Location: Akkule

- **New Approach to Evaluate the Effectiveness of the Audio Information Protection for Determining the Identity of Virtual Speech Images**
  Vladimir Kotenko, Alexey Evseev, Stas Kotenko, Konstantin Rumjantsev *(South Federal University, Russia)*
- **Digital Sound Card Identification Based on Recording Path Imperfections**
  Dmitry Rublev, Vladimir Fedorov, Oleg Makarevich, Anatolij Chumachenko
  (Southern Federal University, Russia)
- **AWGN Based Seed for Random Noise Generator in ParseKey+**
  Atilla Elçi, Behnam Rahnama *(Eastern Mediterranean University)*

10:30 – 11:00 AM Break
11:00 – 12:00 Parallel Sessions

Session CS.2: Cryptography, Security, and Networks

Session Chair: Sorin A. Huss *(Darmstadt University, Germany)*
Location: St. Barnabas

- **DFA-based and SIMD NFA-based Regular Expression Matching on Cell BE for Fast Network Traffic Filtering**
  Feodor Kulishov *(Moscow Engineering Physics Institute (State University))*
- **TrueIP: Prevention of IP Spoofing Attacks Using Identity-Based Cryptography**
  Christian Schridde, Matthew Smith, Bernd Freisleben *(University of Marburg)*

Session AI.2: Attacks and Intrusion Detection

Session Chair: Lyudmila Babenko *(Southern Federal University, Russia)*
Location: Kantara

- **An Integrated Approach to Detect Phishing Mail Attacks: A Case Study**
  R. Suriya, K. Saravanan, Arunkumar Thangavelu *(VIT University)*
- **Trust Based Traffic Monitoring Approach for Preventing Denial of Service Attacks**
  Jayashree Padmanabhan, Easwarakumar K. S, Gokul B, Harishankar S *(Anna University Chennai)*

Session AC.2: Access Control and Security Assurance

Session Chair: Xianghan Zheng *(University of Agder, Norway)*
Location: Akkule

- **Pushing the Limits of One-time Signatures**
  Kemal Bicakci *(TOBB University of Economics and Technology)*
- **A Semantic-based Access Control Mechanism Using Semantic Technologies**
  Moussa Amir Ehsan, Morteza Amini, Rasool Jalili *(Sharif University of Technology)*

12:00 – 13:00

Keynote 3 Session

Session Chair: Derviş Deniz *(Eastern Mediterranean University, North Cyprus)*
Location: Ball Room

- **Embedded Systems for IT Security Applications: Properties and Design Considerations**
  Sorin Alexander Huss *(Center for Advanced Security Research Darmstadt)*

13:00 – 13:45 Lunch
13:45 – 14:45 Parallel Sessions

Session CS.3: Cryptography, Security, and Networks

Session Chair: Feodor Kulishov *(Moscow Engineering Physics Institute, Russia)*
Location: St. Barnabas

- **Efficient, Secure, and Isolated Execution of Cryptographic Algorithms on a Cryptographic Unit**
  Kazim Yumbul *(Gebze Institute of Technology)*, Erkay Savaş *(Sabanci University)*
- **Security Against DoS Attack in Mobile IP Communication**
  Sazia Parvin, Shohrab Ali *(University of Dhaka)*, Song Han, Tharam Dillon *(Curtin University of Technology)*

Session AI.3: Attacks and Intrusion Detection

Session Chair: Kuldeep Singh *(UNIK, India)*
Location: Kantara

- **Artificial Immune System Based Intrusion Detection System**
  Vadim D. Kotov, Vladimir I. Vasilyev *(Ufa State Aviation Technical University)*
- **Danger Theory Based SYN Flood Attack Detection in Autonomic Network**
  Sanjay Rawat, Ashutosh Saxena *(Infosys Technologies Ltd.)*
- **The Method of Interval Estimation in Risk-Analysis System**
  Vladimir M. Shishkin *(Russian Academy of Sciences)*, Sergey V. Savkov *(Saint-Petersburg State University)*

Session AC.3: Access Control and Security Assurance

Session Chair: Serap Atay *(IPSC, Joint Research Center, Italy)*
Location: Akkule

- **Extended Electronic Signature Policies**
  Jorge L. Hernandez-Ardieta, Ana I. Gonzalez-Tablas, Benjamin Ramos, Arturo Ribagorda *(University Carlos III of Madrid)*
- **Fortifying the Dalì Attack on Digital Signature**
  Francesco Buccafurri, Gianluca Caminiti, Gianluca Lax *(University of Reggio Calabria)*

14:45 – 15:15 PM Break
15:15 – 17:00 Parallel Sessions

Session CS.4: Cryptography, Security, and Networks

Session Chair: Muhammed Salamah *(Eastern Mediterranean University, North Cyprus)*
Location: St. Barnabas

- **Effective Pair-wise Key Establishment Scheme for Wireless Sensor Networks**
  Somanath Tripathy *(Indian Institute of Technology Patna)*
- **Hill Cipher Modification Based on Eigenvalues HCM-EE**
  Ahmed Y. Mahmoud, Alexander G. Chefranov *(Eastern Mediterranean University)*
- **BEAN - A Lightweight Stream Cipher**
  Naveen Kumar *(University of Delhi)*, ShriKant Ojha *(Metcalfe House Delhi)*, Kritika Jain, Sangeeta Lal *(University of Delhi)*
- **Secure Many to Many Routing for Wireless Sensor and Actuator Networks**
  Erdal Cayirci, Son T. Nguyen, Chunming Rong *(University of Stavanger)*

Session AI.4: Attacks and Intrusion Detection

Session Chair: Sanjay Rawat *(Infosys Technologies, India)*
Location: Kantara

- **Spam Filter Optimality Based on Signal Detection Theory**
  Singh Kuldeep *(University Graduate Center (UNIK) & NTNU, Norway, HUT, Finland)*, Jøsang Audun *(University Graduate Center (UNIK), Norway; University of Oslo, Norway & QUT, Australia)*, Md. Sadek Ferdous *(University Graduate Center (UNIK) Norway; NTNU, Norway & University of Tartu, Estonia)*, Ravishankar Borgaonkar *(University Graduate Center (UNIK), Norway; HUT, Finland; KTH, Sweden)*
- **Static CFG Analyzer for Metamorphic Malware Code**
  Vinod P., Vijay Laxmi, Manoj S. Gaur, G. V. S. S. Phani Kumar, Yadvendra S. Chundawat *(Malaviaya National Institute of Technology)*
- **Application of Artificial Neural Network in Detection of DOS Attacks**
  Iftikhar Ahmad, Azween B. Abdullah *(Universiti Teknologi Petronas)*, Abdullah S. Alghamdi *(King Saud University)*

Session AC.4: Access Control and Security Assurance

Session Chair: Khaled Salah *(KFUPM, Saudi Arabia)*
Location: Akkule

- **An Efficient and Secure Protocol for DTV Broadcasts**
  Ashutosh Saxena *(Infosys Technologies Ltd.)*
- **Weakening the Dolev-Yao Model Through Probability**
  Riccardo Bresciani, Andrew Butterfield *(Trinity College Dublin)*
- **Buyer Seller Watermarking Protocol for Digital Rights Management**
  Vijay Laxmi, Mudassar N. Khan, Sarath S. Kumar, Manoj Singh Gaur *(Malaviaya National Institute of Technology)*
- **Bumper talk:**
  On the Need to Divide the Signature Creation Environment
  Jorge Lopez *(University of Karlos IIIrd of Madrid)*

19:00 – 21:00

Banquet (Microsoft TR), Awards, Closing
Location: Salamis Bay Conti Resort Hotel

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