

MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION
FEDERAL SERVICE FOR TECHNICAL AND EXPORT CONTROL
STAFF OF THE SECURITY COUNCIL OF THE RUSSIAN FEDERATION
RUSSIAN FOUNDATION FOR BASIC RESEARCH



**Invitation and Program
of the Third International Conference
on Security of Information and Networks
(SIN 2010)**

TRACKS OF THE CONFERENCE

- 1. Security Assessment, Policies, Privacy, and Educational Programs**
- 2. Management and Models of Security and Integrity**
- 3. Cryptography, Security and Networks**
- 4. Attacks and Intrusion Detection**

7—11 September 2010

Southern Federal University
Russia, Taganrog

Organized by



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



CASED

Center for Advanced Security Research
Darmstadt, Germany



Internet Technologies Research Center,
Eastern Mediterranean University,
North Cyprus

In technical cooperation with



SIN 2010 CONFERENCE PROGRAM

rev. 27/08/2010

September 7		September 8		September 9		September 10		September 11			
time	event	time	event	time	event	time	event	time	event		
9:00	Bus transfer	9:00	Bus transfer	9:00	Bus transfer	9:00	Bus transfer				
9:30	Registration, Room I-409	9:30	Registration, Room I-409	9:30	Registration, Atrium						
10:00	Tutorial ID #1: "Selected Exercises on Ethical Hacking from Security Competitors" by Artem Blagodarenko, Konstantin Olshanov, Anton Rechkov, Sergey Cherementsev and Alexander Boiko	10:00	Tutorial ID #2: "Wavelets and Network Anomaly Detection" by Michele Pagano	10:00	Opening Ceremony (Council Room)	09:30	Invited Talk: Alexander Sukhinov "Experience of solving economic security problems on a supercomputer at TIT SFedU" (Council Room) Chair: Olga Peskova				
10:45	Coffee break	10:45	Coffee break	10:45	Coffee break	10:15	Coffee break				
11:00	Tutorial ID #1 (cont)	11:00	Tutorial ID #2 (cont)	11:00	Keynote: Josef Pieprzyk "Evolution of Cryptographic Hashing" Chair: Atilla Elçi	10:30	Keynote: Alexander Tereshkin "Evil Maid Goes After PGP Whole Disk Encryption" Chair: Maxim Anikeev				
12:00	Lunch break	13:00	Lunch break	12:00	Lunch break	12:00	Lunch break				
13:00	Tutorial ID #1 (cont)	14:00	Tutorial ID #3: "Interactive Proof Systems for Cryptography" by Vadym Fedukovich	13:00	Council Room	Room D-406	Council Room	Room D-406	11:00 - 14:00	Yachting	
					Session SA.1: Security Assessment, Policies, Privacy, and Educational Programs Chair: Alexander Chefranov	Session AI.1: Attacks and Intrusion Detection Chair: Vijay Laxmi	Session CS.1: Cryptography, Security and Networks Chair: Josef Pieprzyk	Session SI.1: Management and Models of Security and Integrity Chair: Maxim Kalinin			
14:45	Coffee break	15:45	Coffee break	14:45	Coffee break	14:45	Coffee break				
15:00 - 17:00	Tutorial ID #1 (cont)	15:00 - 17:00	Tutorial ID #3 (cont)	15:00	Session SA.2: Security Assessment, Policies, Privacy, and Educational Programs Chair: Alexander V. Lyubimov	Session AI.1: Attacks and Intrusion Detection Chair: Evgeny Abramov	15:00	Session CS.2: Cryptography, Security and Networks Chair: Lyudmila Babenko	Session SI.2: Management and Models of Security and Integrity Chair: Takeshi Takahashi		
					15:45		Coffee break		15:45	Coffee break	
					16:00 - 17:00	Session SA.3: Security Assessment, Policies, Privacy, and Educational Programs Chair: Alexander Basan		16:00	Session CS.3: Cryptography, Security and Networks Chair: Saïd Gharout	Session SI.3: Management and Models of Security and Integrity Chair: Irina Mashkina	
18:00 - 20:00	Yachting	17:30 - 19:30	City Tour (Bus pickup at 17:00 at the hotel or at 17:30 at the tutorial venue)	17:30 - 18:30	Excursion to the Research Institute of Multiprocessor Computing Systems and IT-Security Department	17:00 - 17:30	Closing (Council Room)				
		19:30	Cocktail (Congress-Hotel Taganrog)	19:00 - 21:30	Banquet and Awards (restaurant "Albatross")	18:30 - 19:30	Concert				

Tuesday, September 7, 2010

9:30 – 10:00

Registration (Room I-409, Chekhova st., 2)

10:00 – 17:00

Tutorial ID#1: Selected Exercises on Ethical Hacking from Security CTF Competitors

Tutors: Artem Blagodarenko, Konstantin Olshanov, Anton Rechkov, Sergey Cherementsev and Alexander Boiko (Technological Institute of Southern Federal University)

Location: Room I-409

Coffee breaks at **10:45** and **14:45**

Lunch break at **12:00**

18:00 – 20:00

Yachting

Wednesday, September 8, 2010

9:30 – 10:00

Registration (Room I-409, Chekhova st., 2)

10:00 – 12:00

Tutorial ID #2: Wavelets and Network Anomaly Detection

Tutor: Michele Pagano (University of Pisa, Italy)

Location: Room I-409

Coffee break at **10:45**

13:00 – 14:00

Lunch break

14:00 – 17:00

Tutorial ID #3: Interactive Proof Systems for Cryptography

Tutor: Vadym Fedyukovych (IntroPro LLC, Ukraine)

Location: Room I-409

Coffee break at **15:45**

17:30 – 19:30

City Tour

19:30

Cocktail (Congress-Hotel “Taganrog”, Dzerjinskogo st., 161)

Thursday, September 9, 2010

9:30 – 10:00

Registration (Atrium, Nekrasovskiy st., 44)

10:00 – 10:45

Opening Session

Presenter: Maxim Anikeev (*Southern Federal University, Russia*)

Location: Council Room

Conference welcome:

Oleg Makarevich (*Southern Federal University, Russia, Taganrog*)

Welcome remarks from Program Committee SIN 2010

10:45 – 11:00

Coffee break

11:00 – 11:45

Keynote 1 Session

Session Chair: Atilla Elçi (*Toros University, Turkey*)

Location: Council Room

Evolution of Cryptographic Hashing

Josef Pieprzyk (*Macquarie University, Sydney, Australia*)

12:00 – 13:00

Lunch break

13:00 – 14:45 Parallel Sessions

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

Session Chair: Alexander Chefranov (*Eastern Mediterranean University, North Cyprus*)

Location: Council Room

• **Integral Engineering Technique for Information Security Methodologies**

Alexander V. Lyubimov (*Saint-Petersburg State Polytechnical University*)

• **An Application of Integral Engineering Technique to Information Security Standards Analysis and Refinement**

Dmitry V. Cheremushkin (*National Research University of Information Technologies, Mechanics and Optics*),

Alexander V. Lyubimov (*Saint-Petersburg State Polytechnical University*)

• **Towards a System-Wide and Transparent Security Mechanism Using Language-Level Information Flow Control**

Mohammad R. Azadmanesh, Mohsen Sharifi (*Iran University of Science and Technology*)

• **A Trust Quantification Method Based on Grey Fuzzy Theory**

Shunan Ma, Jingsha He, Feng Gao, Yuqiang Zhang (*Beijing University of Technology*)

Session AI.1: Attacks and Intrusion Detection

Session Chair: Vijay Laxmi (*Malaviya National Institute of Technology, India*)

Location: Room D-406

• **A DSL for Intrusion Detection Based on Constraint Programming**

Pedro D. Salgueiro, Salvador P. Abreu (*Universidade de Évora, Portugal*)

• **Immune Model Based Approach for Network Intrusion Detection**

Vadim D. Kotov, Vladimir Vasilyev (*Ufa State Aviation Technical University, Russian Federation*)

• **A Distributed Multi-Approach Intrusion Detection System for Web Services**

Meisam S. A. Najjar, Mohammad Abdollahi Azgomi (*Iran University of Science and Technology*)

• **FPGA Based Programmable Embedded Intrusion Detection System**

Taner Tuncer, Yetkin Tatar (*Firat University, Turkey*)

14:45 – 15:00

Coffee break

15:00 – 15:45 Parallel Sessions

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

Session Chair: Alexander V. Lyubimov (*St.-Petersburg State Polytechnical University, Russia*)

Location: Council Room

• **Bachelor of Information Security (“Automated Systems Security” Profile)**

Alexander Tolstoy, Natalia Miloslavskaya (*National Research Nuclear University MEPhI, Russia*)

- **Protecting User Privacy with Multi-Field Anonymisation of LP Addresses**

Carsten Schmoll, Nikolaos Chatzis (*Fraunhofer Institute Fokus*),

Christian Henke (*Technical University Berlin*)

- **Analysis of Privacy in Online Social Networks of Runet**

Slava Kisilevich, Florian Mansmann (*University of Konstanz*)

- **The Weak and the Strong Password Preferences: A Case Study on Turkish Users**

Ilker Korkmaz (*Izmir University of Economics*),

Mehmet Emin Dalkilic (*Ege University*)

Session AI.2: Attacks and Intrusion Detection

Session Chair: Evgeny Abramov (*Southern Federal University, Russia*)

Location: Room D-406

- **A Novel Defense Mechanism Against Sybil Attacks in VANET**

Jyoti Grover, Manoj Singh Gaur, Vijay Laxmi (*Malaviya National Institute of Technology, India*)

- **A Collusion Attack Detection Method for OLSR-Based MANETs Employing Scruple Packets**

Lalith Suresh P., Rajbir Kaur, Manoj Singh Gaur, Vijay Laxmi (*Malaviya National Institute of Technology, India*)

- **MEDUSA: METamorphic malware Dynamic analysis Using Signature from API**

Vinod P. Nair, Harshit Jain, Yashwant K. Golecha, Manoj Singh Gaur, Vijay Laxmi (*Malaviya National Institute of Technology, India*)

15:45 – 16:00

Coffee break

16:00 – 17:00

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

Session Chair: Alexander Basan (*Southern Federal University, Russia*)

Location: Council Room

- **A Calculus for the Qualitative Risk Assessment of Policy Override Authorization**

Steffen Bartsch (*TZI, Universität Bremen*)

- **Rating the Raters: A Reputation System for Wiki-Like Domains**

Alexis V. Pantola (*De La Salle University*),

Susan Pancho-Festin (*University of the Philippines*),

Florante Salvador (*De La Salle University*)

- **Trust Based Multi-Path Routing for End to End Secure Data Delivery in MANETs**

Poonam Gera, Kumkum Garg, Manoj Misra (*Indian Institute of Technology, Roorkee*)

- **Digital Camera Identification Based on Rotated Images**

Dmitry Rublev, Vladimir Fedorov, Oleg Makarevich (*Southern Federal University, Russia*)

17:30 – 18:30

Excursion to the Research Institute of Multiprocessor Computing Systems and IT-Security Department

Location: Chekhova st., 2

19:00 – 21:30

Banquet and Awards

Location: restaurant "Albatross", Pushkinskaya emb. 1

Friday, 10 September, 2010

09:30 – 10:15

Invited Talk

Session Chair: Olga Peskova (*Southern Federal University, Russia*)

Location: Council Room (Nekrasovskiy st., 44)

Experience of solving economic security problems on a supercomputer at TIT SFedU

Alexander Sukhinov (*Southern Federal University, Russia*)

10:15 – 10:30

Coffee break

10:30 – 11:30

Keynote Session 2

Session Chair: Maxim Anikeev (*Southern Federal University, Russia*)

Location: Council Room

Evil Maid Goes After PGP Whole Disk Encryption

Alexander Tereshkin (*Independent Security Researcher*)

12:00 – 13:00

Lunch break

13:00 – 14:45 Parallel Sessions

Session CS.1: Cryptography, Security and Networks

Session Chair: Josef Pieprzyk (*Macquarie University, Australia*)

Location: Council Room

• Differential Analysis of GOST Encryption Algorithm

Ludmila Babenko, Evgeniya Ishchukova (*Southern Federal University, Russia*)

• Estimation of Influence of Error Correction and Privacy Amplification on Keys Generation Rate in QKD Systems

Dmitry M. Golubchikov, Konstantin E. Rumiantsev (*Southern Federal University, Russia*)

• Elgamal Public Key Cryptosystem and Signature Scheme in $GU(m, p, n)$

Alexander G. Chefranov, Ahmed Y. Mahmoud (*Eastern Mediterranean University, North Cyprus*)

• Efficient Hardware Implementations of High Throughput SHA-3 Candidates Keccak, Luffa and Blue Midnight Wish for Single- and Multi-Message Hashing

Abdulkadir Akın, Aydın Aysu, Onur Can Ulusel, ErKay Savaş (*Sabancı University, Turkey*)

Session SI.1: Management and Models of Security and Integrity

Session Chair: Maxim Kalinin (*St. Petersburg Polytechnical University, Russia*)

Location: Room D-406

• The Development of Information Security Operational Management System Based on the Intelligent Technologies

Irina V. Mashkina, Timur Kh. Tukhvatshin, Murat B. Guzairov (*Ufa State Aviation Technical University*)

• Ontological Approach Toward Cybersecurity in Cloud Computing

Takeshi Takahashi (*National Institute of Information and Communications Technology, Japan*),

Youki Kadobayashi (*Nara Institute of Science and Technology, Japan*),

Hiroyuki Fujiwara (*Solution Crew Inc., Japan*)

• Reinforcement Learning Intellectual Agent of Protection for Adapting to Surrounding Environment

Iryna Borysivna Tregubenko (*Ministry of Science and Education of Ukraine Cherkasy State Technological University*)

14:45 - 15:00

Coffee break

15:00 – 15:45 Parallel Sessions

Session CS.2: Cryptography, Security and Networks

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

Location: Council Room

- **Design and Implementation of Robust Embedded Processor for Cryptographic Applications**

Kazim Yumbul, Serdar Süer Erdem (*Gebze Institute of Technology, Turkey*),

Erkay Savas (*Sabancı University, Turkey*)

- **Key Management with Host Mobility in Dynamic Groups**

Saïd Gharout, Abdelmadjid Bouabdallah (*Compiègne University of Technology*),

Mounir Kellil (*CEA LIST*),

Yacine Challal (*Compiègne University of Technology*)

- **Implementation and Performance Evaluation of the RSEP Protocol on ARM and Intel Platforms**

Suleyman Kondakci, Gökhan Yilmaz (*Izmir University of Economics*)

Session SI.2: Management and Models of Security and Integrity

Session Chair: Takeshi Takahashi (*National Institute of Information and Communications Technology, Japan*)

Location: Room D-406

- **Homogeneity Analysis of Power Consumption for Information Security Purposes**

Tatiana Stepanova, Maxim Kalinin, Peter Baranov, Dmitry Zegzhda (*Polytechnical University, St. Petersburg*)

- **Permanent Protection of Information Systems with Method of Automated Security and Integrity Control**

Maxim O. Kalinin (*St. Petersburg Polytechnical University*)

- **Improving First Order Differential Power Attacks Through Digital Signal Processing**

Alessandro Barenghi (*Politecnico di Milano*),

Gerardo Pelosi (*Università degli Studi di Bergamo*),

Yannick Tégli (*STMicroelectronics*)

15:45 – 16:00

Coffee break

16:00 –17:00 Parallel Sessions

Session CS.3: Cryptography, Security and Networks

Session Chair: Saïd Gharout (*Université de Technologie de Compiègne, France*)

Location: Council Room

- **Automated Method for Constructing of Network Traffic Filtering Rules**

Evgeny Abramov, Denis Mordvin, Oleg Makarevich (*Southern Federal University, Russia*)

- **Securing RFID-Based Authentication Systems Using ParseKey**

Behnam Rahnama (*European University of Lefke, Turkey*),

Atilla Elci (*Middle East Technical University, Turkey*),

Selcuk Celik (*European University of Lefke, Turkey*)

- **A Mobile IP Based WLAN Security Management Framework with Reconfigurable Hardware Acceleration**

Soumya Maity, Padmalochan Bera, Soumya Kanti Ghosh (*Indian Institute of Technology, Kharagpur*)

Session SI.3: Management and Models of Security and Integrity

Session Chair: Irina Mashkina (*Ufa State Aviation Technical University, Russia*)

Location: Room D-406

• **Review of European Patents for Methods of Security System Design**

Alexander S. Mosolov, Olga V. Grafova (*Amulet JSC*)

• **Ontology-Based Analysis of Information Security Standards and Capabilities for Their Harmonization**

Vladimir I. Vorobiev, Ludmila N. Fedorchenko, Vadim P. Zabolotsky (*Russian Academy of Sciences*),

Alexander V. Lyubimov (*St. Petersburg State Polytechnical University*)

• **Cyber Security Quantification Model**

M. Asif Khan, Mureed Hussain (*SZABIST, Islamabad*)

17:00 – 17:30

Closing

Location: Council Room

18:30 – 19:30

Concert

Saturday, 11 September, 2010

11:00 – 14:00

Yachting

SIN 2010 Conference Organization

Honorary Chair: Vladislav Zakharevich (Rector of Southern Federal U, Russia)

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Volunteers Team: Students of IT-Security Department of SFedU, "UFOlogists" Security CTF Team

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