

**4.11.2020**      **Wednesday**

**09:00-09:15**      Welcome Berna Örs Yalçın

**09:15-10:45**      **Session 1:            Network Security and Protocols 1**  
**Session Chair:    Atilla Elçi**

Nasser Al-Hadhrami, Matthew Collinson and Nir Oren

A Subjective Network Approach for Cybersecurity Risk Assessment

Karim Lounis and Mohammad Zulkernine

Exploiting Race Condition for Wi-Fi Denial of Service Attacks

Tigran Ovasapyan, Dmitry Moskvina and Artem Tsvetkov

Detection of attacks on the Internet of Things based on intelligent analysis of devices functioning indicators

Farzan Majdani, Lynne Batik, Andrei Petrovski and Sergei Petrovski

Detecting Malicious Signal Manipulation in Smart Grids Using Intelligent Analysis of Contextual Data

Ouisse Ben Fredj, Alaeddine Mihoub, Omar Cheikhrouhou, Moez Krichen and Abdelouahid Derhab

CyberSecurity Attack Prediction: A Deep Learning Approach

Arnab Mukherjee and Raju Halder

PoliceChain: Blockchain-Based Smart Policing System for Smart Cities

**10:45-11:15**      **Break**

**11:15-12:45**      **Session 2:            Security of Cyber Physical Systems**  
**Session Chair:    Tahir Sandikkaya**

Sinem Gür, Simge Demir, Şevval Şimsek and Albert Levi

Secure and Privacy Aware Gateway for Home Automation Systems

Giovanni Salzillo, Massimiliano Rak and Felice Moretta

Threat Modeling based Penetration Testing: The Open Energy Monitor Case study

Yuning Jiang and Yacine Atif

An Approach to Discover and Assess Vulnerability Severity Automatically in Cyber-Physical Systems

Hope Eke, Dr Andrei Petrovski and Hatem Ahriz

Detection of False Command and Response Injection Attacks for Cyber Physical Security and Resilience

Jessica Fong and Ron Poet

Creating Graphical Passwords on a Mobile Phone

Jiyoun Wang and Ron Poet

Permission Management and User Privacy Based On Android

**12:45-13:45**      **Break**

**13:45-15:15**      **Session 3:            Network Security and Protocols 2**  
**Session Chair 3: Behnam Rahnama**

Richard Beno and Ron Poet

Hacking Passwords that Satisfy Common Password Policies

Mamello Thinyane and Debora Christine

SMART Citizen Cyber Resilience (SC2R) Ontology

Markus Hornsteiner, Sebastian Groll and Alexander Puchta

Towards a user-centric IAM entitlement shop - Learnings from the e-commerce

Kübra Aydın, Rahime Belen Sağlam, Shujun Li and Abdullah Bulbul

When GDPR Meets CRAs (Credit Reference Agencies): Looking through the Lens of Twitter

Zeynep Chousein, Hacı Yakup Tetik, Rahime Belen Sağlam, Abdullah Bülbül and Shujun Li

Tension between GDPR and Public Blockchains: A Data-Driven Analysis of Online Discussions

**5.11.2020**      **Thursday**

**10:00-10:45**      **Keynote Speech: Albert Levi, Key Generation for Body Area Networks**  
**Session Chair:    Şerif Bahtiyar**

**10:45-11:15**      **Break**

**11:15-12:45**      **Session 4:            Intrusion Detection**  
**Session Chair:    Alexander Chefranov**

Bayazit Bestami Yuksel, Serif Bahtiyar and Ayse Yilmazer

Credit Card Fraud Detection with NCA Dimensionality Reduction

Maksim Kalameyets, Dmitry Levshun, Sergei Soloviev, Andrey Chechulin and Igor Kotenko

Social networks bot detection using Benford's law  
Mark Vella and Christian Colombo  
SpotCheck: On-Device Anomaly Detection for Android  
Vara Vundavalli, Farhat Barsha, Mohammad Masum, Hossain Shahriar and Hisham Haddad  
Malicious URL Detection Using Machine Learning Techniques  
Maxim Kalinin and Peter Zegzhda  
AI-based Security for the Smart Networks

**12:45-13:45 Break**

**13:45-15:15 Session 5: Cryptographic Techniques and Key Management**  
**Session Chair: Liudmila Babenko**

Giovanni Di Crescenzo and Glenn Veach  
RPM: Additive Stream Ciphers for Lightweight Communication Security  
Yakov Mironov, Polina Mironova and Konstantin Rumyantsev  
Characteristics of a two stage synchronization algorithm in the system of quantum key distribution with dividing a fiber optic line into sections with decreasing length  
Valeriy Osipyan and Kirill Litvinov  
Development of the mathematic model of disymmetric bigram cryptosystem based on a parametric solution family of multi-degree system of Diophantine equations  
Liudmila Babenko and Ilya Pisarev  
Modeling Replay And Integrity Violations Attacks For Cryptographic Protocols Source Codes Verification Of E-Voting System Based On Blind Intermediaries  
Abdulaziz Almehmadi, Oksana Kilik and Khalil El-Khatib  
Eye Gaze-Based Human Error Prevention System: Experts vs. Non-Experts  
Shreyas Srinivasa, Jens Myrup Pedersen and Emmanouil Vasilomanolakis  
Towards systematic honeypot fingerprinting

**6.11.2020 Friday**

**10:00-11:30 Session Chair: Şerif Bahtiyar**  
**Kaspersky Academy - Denis Barinov**

Learning that cannot be postponed: raising security awareness while working from home

**11:30-12:30 Break**

**12:30-14:15 Session 6: Computational intelligence techniques in security**  
**Session Chair 7: Naghmeh Moradpoor**

Jonathan Francis Roscoe and Max Smith-Creasey  
Unconventional Mechanisms for Biometric Data Acquisition via Side-Channels  
Stanislav Zhdanov and Ekaterina Maro  
Power analysis side-channel attacks on symmetric block cipher Magma  
Igor Kottenko, Igor Saenko and Fadey Skorik  
Intelligent support for network administrator decisions based on combined neural networks  
Vasiliy Krundyshev  
Neural network approach to assessing cybersecurity risks in large-scale dynamic networks  
Zixiang Wang, Jiajia Han, Jiangfeng Zhang and Xin Sun  
Privacy-preserving Decentralized Parameter Estimation in Edge Computing Networks  
Mark Sokolov, Kehinde Olufowobi and Nic Herndon  
Visual spoofing in content-based spam detection  
Muhammet Sahin and Serif Bahtiyar  
A Survey on Malware Detection with Deep Learning

**14:15-14:45 Break**

**14:45-15:15**  
Best paper award  
Best presentation award  
Closing Ceremony: Atilla Elçi