

## Table of Contents

Embedded Web Device Security <i>Michael Riegler and Johannes Sametinger</i>	1
Design Issues in the Construction of a Cryptographically Secure Instant Message Service for Android Smartphones <i>Alexandre Braga and Daniela Schwab</i>	7
Resisting Flooding Attacks on AODV <i>Mohamed A. Abdelshafy and Peter J.B. King</i>	14
The Policy-Based AS_PATH Verification to Monitor AS Path Hijacking <i>Je-Kuk Yun, Beomseok Hong, and Yanggon Kim</i>	20
A New Property Coding in Text Steganography of Microsoft Word Documents <i>Ivan Stojanov, Aleksandra Mileva, and Igor Stojanovic</i>	25
Audio Steganography by Phase Modification <i>Fatiha Djebbar and Baghdad Ayad</i>	31
Current Issues in Cloud Computing Security and Management <i>Pedro Artur Figueiredo Vitti, Daniel Ricardo dos Santos, Carlos Becker Westphall, Carla Merkle Westphall, and Kleber Magno Maciel Vieira</i>	36
N-Gram-Based User Behavioral Model for Continuous User Authentication <i>Leslie Milton, Bryan Robbins, and Atif Memon</i>	43
GAIA-MLIS: A Maturity Model for Information Security <i>Roger William Coelho, Gilberto Fernandes Junior, and Mario Lemes Proenca Junior</i>	50
Security of Vehicular Networks: Static and Dynamic Control of Cyber-Physical Objects <i>Vladimir Muliukha, Vladimir Zaborovsky, and Sergey Popov</i>	56
Digital Signature of Network Segment Using Genetic Algorithm and Ant Colony Optimization Metaheuristics <i>Paulo R. G. Hernandez Jr., Luiz F. Carvalho, Gilberto Fernandes Jr., and Mario L. Proenca Jr.</i>	62
DeadDrop-in-a-Flash: Information Hiding at SSD NAND Flash Memory Physical Layer <i>Avinash Srinivasan, Jie Wu, Panneer Santhalingam, and Jeffrey Zamanski</i>	68
Saving Privacy in Trust-Based User-Centric Distributed Systems <i>Alessandro Aldini</i>	76

Enhancing Privacy on Identity Providers <i>Rafael Weingartner and Carla Merkle Westphall</i>	82
Enforcing Security Policies on Choreographed Services Using Rewriting Techniques <i>Karim Dahmani and Mahjoub Langar</i>	89
Obtaining Strong Identifiers Through Attribute Aggregation <i>Walter Priesnitz Filho and Carlos Nuno da Cruz Ribeiro</i>	96
Wi-Fi Intruder Detection <i>Rui Fernandes, Tiago Varum, Nuno Matos, and Pedro Pinho</i>	101
Adding Secure Deletion to an Encrypted File System on Android Smartphones <i>Alexandre Braga and Alfredo Colito</i>	106
Performance Impacts in Database Privacy-Preserving Biometric Authentication <i>Jana Dittmann, Veit Koppen, Christian Kratzer, Martin Leuckert, Gunter Saake, and Claus Viehauer</i>	111
Data Quality and Security Evaluation Tool for Nanoscale Sensors <i>Leon Reznik and Sergey Lyshevski</i>	118
AndroSAT: Security Analysis Tool for Android Applications <i>Saurabh Oberoi, Weilong Song, and Amr Youssef</i>	124
Involvers' Behavior-based Modeling in Cyber Targeted Attack <i>Youngsoo Kim and Ikkyun Kim</i>	132
Test Case Generation Assisted by Control Dependence Analysis <i>Puhan Zhang, Qi Wang, Guowei Dong, Bin Liang, and Wenchang Shi</i>	138
Implementation Issues in the Construction of Standard and Non-Standard Cryptography on Android Devices <i>Alexandre Braga and Eduardo Morais</i>	144
Threshold Proxy Signature Based on Position <i>Qingshui Xue, Fengying Li, and Zhenfu Cao</i>	151
Linearity Measures for Multivariate Public Key Cryptography <i>Simona Samardjiska and Danilo Gligoroski</i>	157
Managed Certificate Whitelisting - A Basis for Internet of Things Security in Industrial Automation Applications <i>Rainer Falk and Steffen Fries</i>	167
Challenges for Evolving Large-Scale Security Architectures	173

*Geir Koien*

A Backtracking Symbolic Execution Engine with Sound Path Merging

180

*Andreas Ibing*

Security Extensions for Mobile Commerce Objects

186

*Nazri Bin Abdullah, Ioannis Kounelis, and Sead Muftic*

Attack Surface Reduction for Web Services based on Authorization Patterns

194

*Roland Steinegger, Johannes Schafer, Max Vogler, and Sebastian Abeck*

Evaluation of Vehicle Diagnostics Security – Implementation of a Reproducible Security Access

202

*Martin Ring, Tobias Rensen, and Reiner Kriesten*

An AMI Threat Detection Mechanism Based on SDN Networks

208

*Po-Wen Chi, Chien-Ting Kuo, He-Ming Ruan, Shih-Jen Chen, and Chin-Laung Lei*

Ghost Map: Proving Software Correctness using Games

212

*Ronald Watro, Kerry Moffitt, Talib Hussain, Daniel Wyszogrod, John Ostwald, Derrick Kong, Clint Bowers, Eric Church, Joshua Guttman, and Qinsi Wang*