

Contents

Invited Talks

Secure and Trusted Application Execution on Embedded Devices	3
<i>Konstantinos Markantonakis, Raja Naeem Akram, and Mehari G. Msgna</i>	
A Number-Theoretic Error-Correcting Code	25
<i>Eric Brier, Jean-Sébastien Coron, Rémi Géraud, Diana Maimuț, and David Naccache</i>	

Cryptographic Algorithms and Protocols

Full Duplex OTP Cryptosystem Based on DNA Key for Text Transmissions.	39
<i>Dumitru Balanici, Vlad Tomsa, Monica Borda, and Raul Malutan</i>	
Evaluation of Lightweight Block Ciphers for Embedded Systems	49
<i>Oana Barahtian, Mihai Cuciuc, Lucian Petcana, Cătălin Leordeanu, and Valentin Cristea</i>	
CART Versus CHAID Behavioral Biometric Parameter Segmentation Analysis.	59
<i>Ionela Roxana Glăvan, Daniel Petcu, and Emil Simion</i>	
SCA Resistance Analysis on FPGA Implementations of Sponge Based MAC — PHOTON	69
<i>N. Nalla Anandakumar</i>	
A Novel Fast and Secure Chaos-Based Algorithm for Image Encryption	87
<i>Jean De Dieu Nkapkop, Joseph Yves Effa, Monica Borda, and Romulus Terebes</i>	
A Novel Key Management for Virtually Limitless Key Size.	102
<i>Damir Omerasevic, Narcis Behlilovic, and Sasa Mrdovic</i>	
Efficient Montgomery Multiplication on GPUs	119
<i>Nicolae Roșia, Virgil Cervicescu, and Mihai Togan</i>	
Stateful Certificateless Public Key Encryption with Application in Public Cloud	130
<i>S. Sree Vivek</i>	

Applying Cryptographic Acceleration Techniques to Error Correction	150
<i>Rémi Géraud, Diana-Ştefania Maimuţ, David Naccache, Rodrigo Portella do Canto, and Emil Simion</i>	
Security Technologies for ITC	
A Cooperative Black Hole Node Detection and Mitigation Approach for MANETs	171
<i>Vimal Kumar and Rakesh Kumar</i>	
Up-High to Down-Low: Applying Machine Learning to an Exploit Database	184
<i>Yisroel Mirsky, Noam Gross, and Asaf Shabtai</i>	
Detecting Computers in Cyber Space Maliciously Exploited as SSH Proxies	201
<i>Idan Morad and Asaf Shabtai</i>	
On a Lightweight Authentication Protocol for RFID	212
<i>George-Daniel Năstase and Ferucio Laurenţiu Țiplea</i>	
Spam Filtering Using Automated Classifying Services over a Cloud Computing Infrastructure	226
<i>Alecsandru Pătraşcu, Ion Bica, and Victor Valeriu Patriciu</i>	
Contributions to Steganographic Techniques on Mobile Devices	242
<i>Dominic Bucerzan and Crina Raţiu</i>	
Secure Implementation of Stream Cipher: Trivium	253
<i>Dillibabu Shanmugam and Suganya Annadurai</i>	
Fast Searching in Image Databases Using Multi-index Robust Fingerprinting	267
<i>Cezar Pleşca, Luciana Morogan, and Mihai Togan</i>	
Erratum to: Up-High to Down-Low: Applying Machine Learning to an Exploit Database	E1
<i>Yisroel Mirsky, Noam Gross, and Asaf Shabtai</i>	
Author Index	281

Innovative Security Solutions for Information Technology
and Communications

8th International Conference, SECITC 2015, Bucharest,
Romania, June 11-12, 2015. Revised Selected Papers

Bica, I.; Naccache, D.; Simion, E. (Eds.)

2015, XXIV, 281 p. 88 illus., Softcover

ISBN: 978-3-319-27178-1