

International Conference on Information Security and Privacy 2009

(ISP-09)

**Orlando, Florida, USA
13-16 July 2009**

ISBN: 978-1-61567-656-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2009) by the International Society for Research in Science and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2009)

For permission requests, please contact the International Society for Research in Science and Technology
at the address below.

ISRST (public relations)
PO Box 2464
Tallahassee, FL 32316 - 2464
USA

isrst@isrst.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Contents

Detection of Stegoimages: A Comparative Study of Classifiers	1
R. K. Agrawal, Gaurav K. Rajput	
Stopping the Insider Threat: the case for implementing integrated autonomic defense mechanisms in computing systems	8
Ghassan 'Gus' Jabbour, Daniel A. Menasce	
Performance Comparison of Different Hash Algorithms	14
Wenbin Luo, Qiaoying Zhou	
Data Privacy by Design: Digital Infrastructures for Clinical Collaborations	22
R.O. Sinnott, O. Ajayi, A.J. Stell	
An Analysis of the Scale and Distribution of Copyrighted Material on the Gnutella Network	30
Alan Hannaway, Tahar Kechadi	
Dynamic Permutation Model	36
Mohamed Abo El-Fotouh, Klaus Diepold	
A Study of Effect of Oscilloscope Parameters on DPA Attacks	46
Guoyu Qian, Yibo Fan, Takeshi Ikenaga, Yukiyasu Tsunoo, Satoshi Goto	
A Holistic and Immune System inspired Security Framework	54
Jeffy Mwakalinga, Louise Yngstrom, Stewart Kowalski	
A Novel Approach for Correcting Noisy AES Ciphers	62
Nabil M.K. Mirza, Ziad Osman, Rached Zantout	
IRFID Honeytokens as a Mitigation Tool against Illicit Inventorying	67
Jonathan White	
Personal Contents Access Control System Using Social Relation Attribute Ontology	74
H.J. Seo, J.P. An, Heedong Ko, Y.C. Choi	
On Discrete Logarithm Problem for Gaussian Integers	79
Aleksey Koval, Boris S. Verkhovsky	
Information Security Policy to Cope with National Cyber Threats	85
Youngdong Son, Injung Kim, Yongtae Shin	

Mapping of Information in Voice Features for use in an Efficient Template -Free Biometric Security System	91
Joshua A. Atah, Gareth Howells	
WiMAX Security Issues and Enhancement	98
Roshan Shaikh, Hamida Qunber Ali, Zubair A. Shaikh	
Probabilistic Deduction and Pattern Recognition of Complex Events	102
Zoran Majkic	
Automatic Security Management: A Technique to Implement Ubiquitous Security	110
Maxim O. Kalinin, Dmitry P. Zegzhda	
An Efficient Algorithm for Scalable Modular Multiplication on Standard Processors	117
Viktor Bunimov, Manfred Schimmler	
Key Scheduling in an SPN Cryptosystem using Musical Notes	123
S. A. Srinivasan, R. Mukkamala, K. Venkataramanaiah	
Analyzing Anomalies in Firewall Security Rules	131
Mohsen Rezvani, Ramtin Aryan	
The Security of Dynamic and Static Substitution Models	139
Mohamed Abo El-Fotouh, Klaus Diepold	
Wireless Sensor Network: Security Out-of-the-Box for Agriculture Industry	145
Piya Techateerawat	
Information Leakage in Mix Networks with Randomized Partial Checking	151
Gedare Bloom, Stefan Popoveniuc	
FOCET: A Functional Ontology of Context for Evaluating Trust	156
Ehsan Mokhtari, Behrouz Tork Ladani, Mohammad Ali Nematbakhsh	
A visualization of anomaly memory behavior of full-virtualized Windows OS using virtual machine introspection	164
Ruo Ando, Nguyen Anh Quynh, Kuniyasu Suzaki	
Security and Privacy Preserving Data in e-Government Integration SIRFARMA Experience	171
Claudio Biancalana, Claudio Pisu, Francesco Saverio Profiti, Fabio Raimondi	

AUTHOR INDEX