## **Table of Contents**

Invited Paper I	
Lightweight and Secure PUFs: A Survey (Invited Paper)	1
Cryptographic Building Blocks I	
Fibonacci LFSR vs. Galois LFSR: Which is More Vulnerable to Power Attacks?	14
Implementing Cryptographic Pairings at Standard Security Levels  Andreas Enge and Jérôme Milan	28
An Efficient Robust Secret Sharing Scheme with Optimal Cheater Resiliency	47
CASH: Cellular Automata Based Parameterized Hash	59
Lattice Based Identity Based Unidirectional Proxy Re-Encryption Scheme	76
Invited Paper II	
A New Approach to Secrecy Amplification in Partially Compromised  Networks (Invited Paper)	92
Mini Tutorial	
Differential Power Analysis Attack on SIMON and LED Block Ciphers	110
Dillibabu Shanmugam. Ravikumar Selvam. and Suganya Annadurai	110

Cryptographic Building Blocks II		
Khudra: A New Lightweight Block Cipher for FPGAs	126	
FNR: Arbitrary Length Small Domain Block Cipher Proposal  Sashank Dara and Scott Fluhrer		
AEC: A Practical Scheme for Authentication with Error Correction Abhrajit Sengupta, Dhiman Saha, Shamit Ghosh, Deval Mehta, and Dipanwita Roy Chowdhury	155	
Yet Another Strong Privacy-Preserving RFID Mutual Authentication Protocol	171	
Attacks and Countermeasures		
Boosting Higher-Order Correlation Attacks by Dimensionality Reduction	183	
Analysis and Improvements of the DPA Contest v4 Implementation Shivam Bhasin, Nicolas Bruneau, Jean-Luc Danger, Sylvain Guilley, and Zakaria Najm	201	
Some Randomness Experiments on TRIVIUM	219	
Tools and Methods		
Randomized Batch Verification of Standard ECDSA Signatures Sabyasachi Karati, Abhijit Das, and Dipanwita Roychoudhury	237	
Batch Verification of EdDSA Signatures	256	
Faster Randomness Testing with the NIST Statistical Test Suite	272	
Secure Systems and Applications		
t-Private Systems: Unified Private Memories and Computation	285	

	Table of Contents	XIX
Android Malware Analysis Using Ensemble Features. $A.M.\ Aswini\ and\ P.\ Vinod$		303
Linux Malware Detection Using eXtended-Symmetric $K.A.\ Asmitha\ and\ P.\ Vinod$	Uncertainty	319
Author Index		333