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Soggetti	Data protection Information storage and retrieval systems Application software Cryptography Data encryption (Computer science) Computer networks Algorithms Data and Information Security Information Storage and Retrieval Computer and Information Systems Applications Cryptology Computer Communication Networks
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Nota di contenuto	Authenticated-Encryption: Security Notions, Designs and Applications -- New Results on Identity-based Encryption from Quadratic Residuosity -- Efficient techniques for extracting secrets from electronic devices -- Secure and Trusted Application Execution on Embedded Devices -- A Number-Theoretic Error-Correcting Code -- Full duplex OTP cryptosystem based on DNA key for text transmissions -- Evaluation of Lightweight Block Ciphers for Embedded Systems -- SCA Resistance Analysis on FPGA Implementations of Sponge based

MAC-PHOTON -- A Novel Fast and Secure Chaos-Based Algorithm for Image Encryption -- A Novel Key Management for Virtually Limitless Key Size -- Efficient Montgomery Multiplication on GPUs -- Applying Cryptographic Acceleration Techniques to Error Correction -- A Cooperative Black Hole Node Detection and Mitigation Approach for MANETs -- Up-high to Down-low: Applying Machine Learning to an Exploit Database -- Detecting Computers in the Cyber Space Maliciously Exploited as SSH Proxies.-On a Lightweight Authentication Protocol for RFID -- Spam Filtering using Automated Classifying Services Over a Cloud Computing Infrastructure -- Contributions to Steganographic Techniques on Mobile Devices -- Secure implementation of Stream cipher: Trivium -- Fast Searching in Image Databases Using Multi-Hash Robust Fingerprinting.

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#### Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Security for Information Technology and Communications, SECITC 2015, held in Bucharest, Romania, in June 2015. The 17 revised full papers were carefully reviewed and selected from 36 submissions. In addition with 5 invited talks the papers cover topics such as Cryptographic Algorithms and Protocols, Security Technologies for IT&C, Information Security Management, Cyber Defense, and Digital Forensics. .

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