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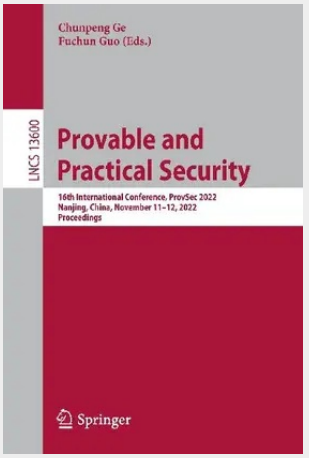
Provable and Practical Security

16th International Conference, ProvSec 2022, Nanjing, China, November 11-12, 2022, Proceedings

This book constitutes the refereed proceedings of the 16th International Conference on Provable Security, ProvSec 2022, held in Nanjing, China, in November 11–12,2022. The 15 full papers and 4 short papers were presented carefully reviewed and selected from 52 submissions. The papers focus on provable security as an essential tool for analyzing security of modern cryptographic primitives. They are divided in the following topical sections: Encryption; Lattice Based Cryptography; Information Security; Blockchain; and Foundations.

Encryption.- A Generic Construction of CCA-secure Attribute-based Encryption with Equality Test.- Secure-Channel Free Certificateless Searchable Public key Authenticated Encryption with Keyword Search.- More Efficient Verifiable Functional Encryption.- Subverting Deniability.- Epoch Confidentiality in Updatable Encryption.- Lattice Based Cryptography.- Simplified Server-Aided Revocable Identity-Based Encryption from Lattices.- Lattice-based Public Key Cryptosystems invoking Linear Mapping Mask.- Batched Fully Dynamic Multi-key FHE from FHEW-like Cryptosystems.- Zero-knowledge Range Arguments for Signed Fractional Numbers from Lattices.- Information Security.- Fast Out-of-band Data Integrity Monitor to Mitigate Memory Corruption Attacks.- Construction of a New UAV Management System based on UMIA Technology.- FP2-MIA: A Membership Inference Attack Free of Posterior Probability in Machine Unlearning.- Practical Federated Learning for Samples with Different IDs.- Blockchain.- Reinforcement-Mining: Protecting Reward in Selfish Mining.- FolketID: A Decentralized Blockchain-based NemID Alternative against DDosS Attacks.- Secure Collaboration between Consortiums in Permissioned Blockchains.- Foundations.- (Public) Verifiability For Composable Protocols Without Adaptivity Or Zero-Knowledge.- Practical Non-Malleable Codes from Symmetric-key Primitives in 2-Split-State Model.- Cryptographic Role-Based Access Control, Reconsidered.



69,54 €
64,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783031209161
Medium: Buch
ISBN: 978-3-031-20916-1
Verlag: Springer
Erscheinungstermin: 07.11.2022
Sprache(n): Englisch
Auflage: 1. Auflage 2022
Serie: Lecture Notes in Computer Science
Produktform: Kartoniert
Gewicht: 464 g
Seiten: 291
Format (B x H): 155 x 235 mm