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	Nota di contenuto	Blockchain and Applications -- ChainSCAN: A Blockchain-based Supply Chain Alerting Framework for Food Safety -- BlockRAT: An Enhanced Remote Access Trojan Framework via Blockchain -- Adapted PBFT Consensus Protocol for Sharded Blockchain -- A Practical Blockchain-based Maintenance Record System for Better Aircraft Security -- Redactable Blockchain with Fine-Grained Autonomy and Transaction Rollback -- Cryptography and Applications -- Pitch in: A Secure Extension Signature based on SM9 -- Verifiable DOPE from Semi-homomorphic Encryption, and the Extension to DOT -- Scalable M+1st-Price Auction with Infinite Bidding Price -- The Shared Memory based Cryptographic Card Virtualization -- Network Security -- Feature Transfer based Network Anomaly Detection -- Hybrid Routing for Efficient Fine-Grained Management of Specific Services in SDN -- AtNet: A Novel Anti-tracking Network with Multi-party JudgementCapability based on Cross-domain Small-world Topology -- A Two-stage Method for Fine-grained DNS Covert Tunnel Behavior Detection -- Analysis and Detection against Overlapping Phenomenon of Behavioral Attribute in Network Attacks -- Integration of Cybersecurity related Development Processes by using a Quantification Method -- Cyber-Physical System -- ZoomPass: A Zoom-based

Android Unlock Scheme on Smart Devices -- Metasploit for Cyber-Physical Security Testing with Real-Time Constraints -- Passive User Authentication Utilizing Consecutive Touch Action Features for IIoT Systems -- Malware -- Malware Classification Based on Semi-Supervised Learning -- Malware detected and tell me why: An verifiable malware detection model with graph metric learning -- Malware Detection using Automated Generation of Yara rules on Dynamic Features -- Mobile System Security -- Question Answering Models For Privacy Policies of Mobile Apps: Are We There Yet? -- Design of End-to-End Security for MQTT 5.0 -- DroidFP: A Zero-Permission Detection Framework for Android Device Based on Gated Recurrent Unit -- System and Web Security -- An Intrusion Detection System based on Deep Belief Networks -- HINCDG: Multi-Meta-Path Graph Auto-Encoders for Mining of Weak Association Malicious Domains -- AttVAE: A Novel Anomaly Detection Framework for Multivariate Time Series -- BASNEA: Threat Hunting for Ethereum Smart Contract based on Backtrackless Aligned-Spatial Network Entity Alignment -- Multi-region SRAM-Based TCAM for Longest Prefix -- Security in Financial Industry -- A solution for the offline double-spending issue of digital currencies -- A Hierarchical Macroeconomic Copula Model for Cyber Damages based on current Cyber Insurance Prices -- Social Engineering and Personalized Security -- Cyber Social Engineering Kill Chain -- Towards Practical Personalized Security Nudge Schemes: Investigating the Moderation Effects of Behavioral Features on Nudge Effects -- Spear Phishing Email Detection with Multiple Reputation Features and Sample Enhancement -- Privacy and Anonymity -- TraceDroid: A Robust Network Traffic Analysis Framework for Privacy Leakage in Android Apps -- A k-anonymity-based Robust Watermarking Scheme for Relational Database.

Sommario/riassunto	This book constitutes the proceedings of the 4th International Conference on Science of Cyber Security, SciSec 2022, held in Matsu, Japan in August 2022. The 36 full papers presented in this volume were carefully reviewed and selected from 88 submissions. The papers are organized in the following topical sections: blockchain and applications; cryptography and applications; network security; cyber-physical system; malware; mobile system security; system and web security; security in financial industry; social engineering and personalized security; privacy and anonymity.