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Nota di contenuto	-- Security of Emerging Technologies in Computer Networks. -- Advancing Quantum Computing and Cryptography. -- Optical Neural Networks – A Strategy for Secure Quantum Computing. -- Guarding Against Quantum Threats: A Survey of Post-Quantum Cryptography Standardization, Techniques, and Current Implementations. -- Cryptographic Distinguishers through Deep Learning for Lightweight Block Ciphers. -- Detection and Mitigation of Email Phishing. -- Securing Digital Forensic Data Using Neural Networks, Elephant Herd Optimization and Complex Sequence Techniques. -- Design of Image Encryption Technique Using MSE Approach. -- Low Latency Binary Edward Curve Crypto processor for FPGA platforms. -- Augmenting Security in Edge Devices: FPGA-Based Enhanced LEA Algorithm with S-Box and Chaotic Functions. -- AI-Driven Cybersecurity: The Role of Machine Learning. -- Machine Learning Approach for Malware Detection Using Malware Memory Analysis Data. -- DDOS Attack Detection in Virtual Machine Using Machine Learning Algorithms. -- An Unsupervised Method for Intrusion Detection using Novel Percentage Split Clustering. -- HATT-MLPNN: A Hybrid Approach for Cyber-Attack Detection in Industrial Control Systems Using MLPNN and Attention Mechanisms. -- Silent Threats: Monitoring Insider Risks in Healthcare Sector. -- Advancing Cybersecurity with Deep Learning Techniques. -- Enhanced Deep Learning for IIoT Threat Intelligence: Revealing Advanced Persistent Threat Attack Patterns. -- Adaptive Data-Driven LSTM Model for Sensor Drift Detection in Water Utilities. -- Enhancing FGSM Attacks with Genetic Algorithms for Robust Adversarial Examples in Remote Sensing Image Classification Systems. -- GAN-Enhanced Multiclass Malware Classification with Deep Convolutional Networks. -- Securing Connected Systems: IoT, Cloud, and Web Security Strategies. -- IOT Based Locker Access System with MFA Remote Authentication. -- A Secure Authentication Scheme between Edge Devices using HyperGraph Hashing Technique in IoT Environment. -- Enhancing Access Control and Information Sharing in Cloud IoT with an Effective Blockchain-Based Authority System. -- Securing Data in MongoDB: A Framework Using Encryption. -- Handling Sensitive Medical Data – A Differential Privacy enabled Federated Learning Approach. -- Securing your Web Applications: The Power of Bugbite Vulnerability Scanner.
Sommario/riassunto	This book constitutes the refereed proceedings of the 14th International Conference, on Applications and Techniques in Information Security, ATIS 2024, held in Tamil Nadu, India, November 22-24, 2024. The 24 full papers presented were carefully reviewed and selected from 149 submissions. The conference focuses on Advancing Quantum Computing and Cryptography; AI-Driven Cybersecurity: The Role of Machine Learning; Advancing Cybersecurity with Deep Learning Techniques; and Securing Connected Systems: IoT, Cloud, and Web Security Strategies.