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-- Protocols, Security, and Smart Contracts. -- Zero-Shot Detection of Bytecode-Level Ponzi Contract Using LLM. -- Smart Contract Vulnerability Detection Using Combined Sequence and Graph Features from Source Code. -- UAVSpectrumChain: Smart-Contract Based Credible Spectrum Trading for UAV Communications. --Cryptocurrency Network Anomaly Detection Based on Time-Aware Channel Fusion Dynamic Graph Neural Network. -- HSTA: Ethereum Phishing Fraud Detection Model Based on Dynamic Graph Hybrid Spatio-Temporal Attention Mechanism. -- Semantic Interaction and Relation-Decoupled Heterogeneous Graph Structure Learning: Application to Smart Contracts. -- Learning to Detect Smart Contract Vulnerabilities from Code Property Graph. -- SD-ATD: Semantic-Decoupling Contrastive Learning Model for Blockchain Abnormal Transaction Detection. -- BFCSR: a Blockchain-Based Federated Learning Framework with Client Selection and Round-Based Training Scheme. -- A Learning Behavior Based Framework for Secure Personalised Blockchain Federated Learning. -- MultiSCDetect: a Multi-Objective Detection-Based Framework for Smart Contract Vulnerability Detection. -- DDCTGAN: a Dual Discriminator Conditional Tabular Generative Adversarial Network for Network Intrusion Detection Systems. -- TrustZone-Based WebAssembly Smart Contract Execution for Privacy-Preserving Blockchain. -- LogSentry: an LSTM-Based Framework for Real-Time Vulnerability Detection in Smart Contracts. -- PROMISE: Pedersen Commitment-Based Transaction Hiding Scheme for Blockchain System. -- Data, Governance, and Applications. --Federated Trustworthy Energy Regulation Scheme Based on on-Chain and off-Chain Collaboration. -- Securing the Metaverse: Designing Multi-Layered Accountability Architectures for Web 3.0. --Understanding Ethereum Money Laundering via Transaction Network Analysis: a Case Study of the Bybit Incident. -- Beformer: Behavior Enhanced Transformer for Task Demand Forecasting in Computing Power Networks. -- Computing Power Networks Load Prediction Based on Trend Segmentation Technology. -- Edge Computing Scheduling by Using Temporal Knowledge Graph. -- Smart Contract Penetrating Supervision Solution for Regional Equity Markets. -- A Distributed and Trusted Collaborative Framework for Industrial Defect Detection Based on Pseudo-Anomaly Augmentation and Residual Segmentation. --Research and Application of Blockchain Judicial Evidence Preservation in the Correlation Analysis Between Electrical Equipment Failures and Forest Fires. -- BDSN: Blockchain-Based Data Sharing Network. --Value Representation of Industrial Internet Data Elements Based on Digital Object Architecture. -- Dataset Ownership in the Era of Large Language Models. -- Incentive Mechanisms for Collaborative Intelligence Sharing in Blockchain-Based Federated LLM Fine-Tuning. -- Blockchain Governance and Adaptive Incentive Mechanisms in Federated Learning. -- Scalability, Cross-Chain, and Ecosystems. -- A Survey of Web 3.0 Development: from Technical Architecture to Application Domains and Global-Local Practices. -- Reinforcing Data Security Regulation via Cross-Chain Smart Contracts. -- A Cross-Chain Identity Anonymity Protection Scheme for Regulatory Scenarios. -- The Design and Implementation of an Ethereum Account Fraud Detection Scheme. -- Demystifying Toxic Content in Ethereum Transactions. -- Towards Intelligent Blockchain Consensus Technique: Status and Development. -- Blockchain-Assisted Conditional Privacy-Preserving Authentication Scheme for VANETs. -- An Anonymous Smart Contract Access Control Scheme Based on Group Signatures. --An Asynchronous Consensus and Certification Algorithm Based on Parallel Chains. -- DHS-RBAC: a Domain and Hierarchical Data Sharing

Scheme for Industrial Internet. -- Heterogeneous-Aware Adaptive Load-Balancing Sharded Blockchain for Financial Data Sharing. -- A Reputation-Enhanced Hashgraph Consensus Mechanism for Internet of Vehicles. -- Blockchain Load Balancing Optimization for Multi-Modal Transactions. -- A Blockchain Based Distributed Code Hosting Platform. -- CIFGViewer: Detecting Cross-Chain Bridge Attacks via Cross-Chain Information Flow Graph.

## Sommario/riassunto

This book constitutes the refereed proceedings of the Second Conference on 2025 International Conference on Blockchain and Web3. 0 Technology Innovation and Application Exchange, BWTAC 2025, held in Chengdu, China, during November 7–9, 2025. The 41 full papers and 3 short papers included in this book were carefully reviewed and selected from 98 submissions. They were organized in topical sections as follows: Protocols, Security, and Smart Contracts; Data, Governance, and Applications; and Scalability, Cross-Chain, and Ecosystems.