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Nota di contenuto	AI for Blockchain -- A General Smart Contract Vulnerability Detection Framework with Self-Attention Graph Pooling -- The Best of Both Worlds: Integrating Semantic Features with Expert Features for Smart Contract Vulnerability Detection -- A LSTM and GRU-based hybrid model in the Cryptocurrency price prediction -- Smart Contract Code Clone Detection Based on Pre-Training Techniques -- MF-Net: Encrypted Malicious Traffic Detection Based on MultiFlow Temporal

Features -- Blockchain Applications -- When Supply Chain Security Meets Blockchain: Applications and Challenges -- ePoW: Energy-efficient Blockchain Consensus Algorithm for Decentralize Federated Learning System in Resource constrained Drone Swarm -- Applications of Consortium Blockchain in Power Grid Security: A Systematic Review -- Blockchain and OR based data sharing solution for Internet of Things -- Rearranging Inv Message in the Bitcoin to Construct Covert Channels -- Long-term Blockchain Transactions Spanning Multiplicity of Smart Contract Methods -- Market Derivative Risks and Regulation of Virtual Currency Trading Using "PaoFen" Platforms -- Research on Regulation Oriented Decentralized Oracle Machine -- Obric: Oblivious Keyword Search in Hyperledger Fabric Platform -- Blockchain Architecture and Optimization -- A distributed, penetrative and all-dimensional supervision architecture for consortium blockchain -- SC-Chain: a multi-modal collaborative storage system for medical resource -- Congestion Control with Receiver-aided Network Status Awareness in RDMA Transmission -- VPBFT: Improved PBFT consensus algorithm based on VRF and PageRank algorithm -- Consensusless Blockchain: A Promising High-Performance Blockchain without Consensus -- Protocols and Consensus -- Ouroboros Taktikos: Regularizing Proof-of-Stake via Dynamic Difficulty -- Petrichor: An Efficient Consensus Protocol Leveraging DAG and Sharding for Asynchronous BFT -- A Kind of Optimization Method for Committee and Reward Mechanism -- MagpieBFT: An Efficient Asynchronous BFT Protocol for Blockchain -- A Hierarchical Blockchain Framework with Selectable Consensus Scope for Data Sharing in Internet of Vehicles -- An Improved PBFT Consensus Algorithm for Supply Chain Finance. .

| Sommario/riassunto | The two-volume set CCIS 1896 and 1897 constitutes the refereed post-conference proceedings of the 5th International Conference on Blockchain and Trustworthy Systems, BlockSys 2023, which took place in Haikou, China during August 8–10, 2023. The 45 revised full papers presented in these proceedings were carefully reviewed and selected from 93 submissions. The papers are organized in the following topical sections: Part I: Anomaly detection on blockchain; edge intelligence and metaverse services; blockchain system security; empirical study and surveys; federated learning for blockchain. Part II: AI for blockchain; blockchain applications; blockchain architecture and optimization; protocols and consensus. |