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Titolo	Algorithms and Architectures for Parallel Processing : 21st International Conference, ICA3PP 2021, Virtual Event, December 3–5, 2021, Proceedings, Part III // edited by Yongxuan Lai, Tian Wang, Min Jiang, Guangquan Xu, Wei Liang, Aniello Castiglione
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Descrizione fisica	1 online resource (810 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13157
Disciplina	004.35
Soggetti	Algorithms Computer engineering Computer networks Coding theory Information theory Data protection Database management Data mining Design and Analysis of Algorithms Computer Engineering and Networks Coding and Information Theory Data and Information Security Database Management Data Mining and Knowledge Discovery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Blockchain Systems -- StateSnap: A State-Memorized P2P Storage Network for Blockchain NFT Content Data -- Towards Requester-Provider Bilateral Utility Maximization and Collision Resistance in Blockchain-based Microgrid Energy Trading -- Evaluating the Parallel Execution Schemes of Smart Contract Transactions in Different

Blockchains: An Empirical Study -- Misbehavior Detection in VANET
Based on Federated Learning and Blockchain -- Data Science -- ABE-
AC4DDS: An Access Control Scheme based on Attribute-Based
Encryption for Data Distribution Service -- An Interactive Visual System
for Data Analytics of Social Media -- Auto-Recon: an Automated
Network Reconnaissance System Based on Knowledge Graph -- INGCF:
An Improved Recommendation Algorithm Based on NGCF --
Distributed and Network-based Computing -- AutoFlow: Hotspot-
Aware, Dynamic Load Balancing for Distributed Stream Processing --
BMTP: Combining Backward Matching with Tree-based Pruning for
Large-scale Content-based Pub/Sub Systems -- AF-TCP: Traffic
Congestion Prediction at Arbitrary Road Segment and Flexible Future
Time -- Collaborative QoS Prediction via Context-Aware Factorization
Machine -- TDCT: Target-Driven Concolic Testing Using Extended
Units by Calculating Function Relevance -- Multi-Task Allocation Based
on Edge Interaction Assistance in Mobile Crowdsensing -- A Variable-
way Address Translation Cache for the Exascale Supercomputer --
PPCTS: Performance Prediction-based Co-located Task Scheduling in
Clouds -- Edge Computing and Edge Intelligence -- Risk-Aware
Optimization of Distribution-based Resilient Task Assignment in Edge
Computing -- Budget-aware Scheduling for Hyperparameter
Optimization Process in Cloud Environment -- Workload Prediction and
VM Clustering Based Server Energy Optimization in Enterprise Cloud
Data Center -- Soft Actor-Critic-Based DAG Tasks Offloading in Multi-
Access Edge Computing with Inter-User Cooperation -- Service
Dependability and Security Algorithms -- SensorData Normalization
among Heterogeneous Smartphones for Implicit Authentication --
Privacy-Preserving and Reliable Federated Learning -- Security
Authentication of Smart Grid Based on RFF -- SEPoW: Secure and
Efficient Proof of Work Sidechains -- A Spectral Clustering Algorithm
Based on Differential Privacy Preservation -- A Compact Secret Image
Sharing Scheme Based on Flexible Secret Matrix Sharing Scheme --
Robust Multi-Model Personalized Federated Learning via Model
Distillation -- V-EPTD: A Verifiable and Efficient Scheme for Privacy-
preserving Truth Discovery -- FedSP: Federated Speaker Verification
with Personal Privacy Preservation -- Security Performance Analysis for
Cellular Mobile Communication System with Randomly-Located
Eavesdroppers -- Short and Distort: A New Manipulation as Opposed to
Pump and Dump in the Cryptocurrency Market -- Privacy-preserving
Swarm learning Based on Homomorphic Encryption -- Software
Systems and Efficient Algorithms -- A modeling and verification
method of Modbus TCP / IP protocol -- Completely Independent
Spanning Trees in the Line Graphs of Torus Networks -- Adjusting
OBSS/PD based on fuzzy logic to improve throughput of IEEE 802.11ax
network -- Two-Stage Evolutionary Algorithm Using Clustering for
Multimodal Multi-Objective Optimization with Imbalance Convergence
and Diversity -- SLA: A Cache Algorithm for SSD-SMR Storage System
with Minimum RMWs -- Trajectory Similarity Search with Multi-level
Semantics -- Nonnegative Matrix Factorization Framework For disease-
related CircRNA prediction -- A Fast Authentication and Key Agreement
Protocol Based on Time-sensitive Token for Mobile Edge Computing --
Ferproof: A Constant Cost Range Proof Suitable for Floating-Point
Numbers -- NEPG: Partitioning Large-Scale Power-Law Graphs --
Accelerating DCNNs via Cooperative Weight/Activation Compression --
PFA: performance and fairness-aware LLC partitioning method -- SGP:
A Parallel Computing Framework for Supporting Distributed Structural
Graph Clustering -- LIDUSA -- A Learned Index Structure for Dynamical
Uneven Spatial Data -- Why is Your Trojan NOT Responding? A

Sommario/riassunto

The three volume set LNCS 13155, 13156, and 13157 constitutes the refereed proceedings of the 21st International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2021, which was held online during December 3-5, 2021. The total of 145 full papers included in these proceedings were carefully reviewed and selected from 403 submissions. They cover the many dimensions of parallel algorithms and architectures including fundamental theoretical approaches, practical experimental projects, and commercial components and systems. The papers were organized in topical sections as follows: Part I, LNCS 13155: Deep learning models and applications; software systems and efficient algorithms; edge computing and edge intelligence; service dependability and security algorithms; data science; Part II, LNCS 13156: Software systems and efficient algorithms; parallel and distributed algorithms and applications; data science; edge computing and edge intelligence; blockchain systems; deep learning models and applications; IoT; Part III, LNCS 13157: Blockchain systems; data science; distributed and network-based computing; edge computing and edge intelligence; service dependability and security algorithms; software systems and efficient algorithms.
