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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Networking and Architectures -- Accelerating GPU-Based Out-of-Core Stencil Computation with On-the-Fly Compression -- Routing with Ant Colony Optimization in Wireless Mesh Networks -- A light-weight scheme for detecting component structure of network traffic -- Evaluating the performance and conformance of a SYCL implementation for SX-Aurora TSUBASA -- Bayesian Optimization Based Task Scheduling in Heterogeneous Computing Systems -- Optimizing Uplink

Bandwidth Utilization for Crowdsourced Livecast -- A Batched Jacobi SVD Algorithm on GPUs and Its Application to Quantum Lattice Systems -- A Molecular Dynamics Based Multi-Scale Platelet Aggregation Model and Its High-throughput Simulation -- Approximation and Polynomial Algorithms for Multi-Depot Capacitated Arc Routing Problems -- Zero-shot Face Swapping with De-identification Adversarial Learning -- An user-driven active way to push ACL in Software-Defined Networking -- Photonic Computing and Communication for Neural Network Accelerators -- Performance Comparison of Multi-layer Perceptron Training on Electrical and Optical Network-on-Chips -- The design and implementation of reconfigurable quaternary logic processor -- A 3D Dubins Curve Constructing Method Based on Particle Swarm Optimization -- Software Systems and Technologies -- Towards Conflict-Aware Workload Co-execution on SX-Aurora TSUBASA -- A Learning-Based Scheduler for High Volume Processing in Data Warehouse using Graph Neural Networks -- Adaptive Updates for Erasure-Coded Storage Systems Based on Data Delta and Logging -- Matching Program Implementations and Heterogeneous Computing Systems -- FastDCF: A Partial Index based Distributed and Scalable Near-Miss Code Clone Detection Approach for Very Large Code Repositories -- Towards Optimal Fast Matrix Multiplication on CPU-GPU Platforms -- Temperature Matrix-based Data Placement Using Improved Hungarian Algorithm in Edge Computing Environments -- Realtime Physics Simulation of Large Virtual Space with Docker Containers -- A deep reinforcement learning-based approach to the scheduling of multiple workflows on non-dedicated edge servers -- A MVCC Approach to Parallelizing Interoperability of Consortium Blockchain -- An Effective and Reliable Cross-Blockchain Data Migration Approach -- Algorithm for the Facility Location Problem with Origin and Destination -- Reinforcement Learning-based Auto-scaling Algorithm for Elastic Cloud Workflow Service -- Optimal Energy Efficiency Strategy of mm Wave Cooperative Communication Small Cell based on SWIPT -- Providing Low Latency Execution Guarantees under Uncertainty in Serverless Platforms -- High resolution patient-specific blood flow simulation in a full-size aneurysmal aorta based on a parallel two-level method -- Optimizing Data Locality by Executor Allocation in Reduce Stage for Spark Framework -- TEFRED: A temperature and energy cognizant fault-tolerant real-time scheduler based on deadline partitioning for heterogeneous platforms -- Algorithms and Applications -- Social Recommendation via Graph Attentive Aggregation -- MACSQ: Massively Accelerated DeepQ Learning on GPUs using on-the-fly State Construction -- Model-based Multi-agent Policy Optimization with Dynamic Dependence Modeling -- Multi-index federated aggregation algorithm based on trusted verification -- Few-shot Generative Learning by Modeling Stereoscopic Priors -- Distributed fair k-Center clustering problems with outliers -- Multi-zone residential HVAC control with satisfying occupants' thermal comfort requirements and saving energy via reinforcement learning -- Approximating BP Maximization with Distorted-Based Strategy -- Streaming Algorithms for Maximization of a Non-Submodular Function with a Cardinality Constraint on the Integer Lattice -- Adaptable Focal Loss for Imbalanced Text Classification -- Roman Amphitheater Classification Using Convolutional Neural Network and Data Augmentation -- Data-Hungry Issue in Personalized Product Search -- Jointly Super Resolutionand Degradation Learning on Unpaired Real-World Images -- Enhanced Discriminant Local Direction Pattern Learning for Robust Palmprint Identification -- Latent Multi-view Subspace Clustering Based on Schatten-p Norm -- Security and Privacy

-- MOFIT: An efficient access control scheme with attribute merging and outsourcing capability for Fog-enhanced IoT -- RepBFL: Reputation based Blockchain-Enabled Federated Learning Framework for Data Sharing in Internet of Vehicles -- Multimodal Fusion Representation Learning based on Differential Privacy -- Efficient List Decoding Applied to ECC^2 -- Federated Data Integration for Heterogeneous Partitions based on Differential Privacy -- Patient-Chain: Patient-centered healthcare system a Blockchain-based technology in dealing with emergencies -- A differential privacy image publishing method based on wavelet transform -- Traffic Matrix Prediction Based on Differential Privacy and LSTM -- A blockchain-based continuous query differential privacy algorithm -- Formalization and Verification of Group Communication CoAP using CSP.

Sommario/riassunto

This book constitutes the proceedings of the 22nd International Conference on Parallel and Distributed Computing, Applications, and Technologies, PDCAT 2021, which took place in Guangzhou, China, during December 17-19, 2021. The 24 full papers and 34 short papers included in this volume were carefully reviewed and selected from 97 submissions. The papers are categorized into the following topical sub-headings: networking and architectures, software systems and technologies, algorithms and applications, and security and privacy.