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Disciplina	005.1
Soggetti	Software engineering Operating systems (Computers) Computer systems Computers, Special purpose Artificial intelligence Software Engineering Operating Systems Computer System Implementation Special Purpose and Application-Based Systems Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	High Performance Computing and Parallelized Computing -- Enhancing Multi-physics Coupling on ARM Many-core Cluster -- Polaris: Enhancing CXL-based Memory Expanders with Memory-side Prefetching -- ExtendLife: Weights Mapping Framework to Improve RRAM Lifetime for Accelerating CNN -- The Optimization of IVSHMEM Based on Jailhouse -- Multi-agent Cooperative Computing Resource Scheduling Algorithm for Periodic Task Scenarios -- Storage Systems

and File Management -- CLMS: Configurable and Lightweight Metadata Service for Parallel File Systems on NVMe SSDs -- Combining Cache and Refresh to Optimize SSD Read Performance Scheme -- CCS: a Motif-based Storage Format for Micro-execution Dependence Graph -- Hydis: A Hybrid Consistent KVS with Effective Sync Among Replicas -- Networking and Cloud Computing -- An Automatic Deployment Method for Hybrid Cloud Simulation Platform -- Reliability Optimization Scheduling and Energy balancing for Real-time Application in Fog Computing Environment -- Federated Classification for Multiple Blockchain Systems -- Towards Privacy-Preserving Decentralized Reputation Management for Vehicular Crowdsensing -- Delay Optimization for Consensus Communication in Blockchain-Based End-Edge-Cloud Network -- Computer Architecture and Hardware Acceleration -- A Low-latency Hardware Accelerator for YOLO Object Detection Algorithms -- SCFM: a Statistical Coarse-to-Fine Method to Select Cross-Microarchitecture Reliable Simulation Points -- On-Demand Triggered Memory Management Unit in Dynamic Binary Translator -- MFHBT: Hybrid Binary Translation System with Multi-stage Feedback Powered by LLVM -- Step and Save: An Incentive Mechanism for Health Insurance Based on Wearable Technology -- Machine Learning and Data Analysis -- Spear-phishing Detection Method Based on Few-shot Learning -- Time Series Classificationbased on Data-Augmented Contrastive Learning.-From Ledger to P2P network: De-anonymization on Bitcoin Using Cross-layer Analysis -- Robust Online Crowdsourcing with Strategic Workers -- Distinguished Work from Student Competition -- New Filter2D Accelerator on the Versal Platform Powered by the AI Engine.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Symposium on Advanced Parallel Processing Technologies, APPT 2023, held in Nanchang, China, during August 4–6, 2023. The 23 full papers and 1 short papers included in this book were carefully reviewed and selected from 49 submissions. They were organized in topical sections as follows: High Performance Computing and Parallelized Computing, Storage Systems and File Management, Networking and Cloud Computing, Computer Architecture and Hardware Acceleration, Machine Learning and Data Analysis, Distinguished Work from Student Competition.
