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Nota di contenuto	Heterogeneous System (1) -- Towards Priority-Flexible Task Mapping for Heterogeneous Multi-Core NUMA systems -- Multi-GPU Scaling of a Conservative Weakly Compressible Solver for Large-scale Two-phase Flow Simulation -- Improving the Performance of Lattice Boltzmann Method with Pipelined Algorithm on A Heterogeneous Multi-zone Processor -- FPGA -- DEEPFAKE CLI: Accelerated Deepfake Detection using FPGAs -- Memory access optimization for former process of pencil drawing style image conversion in High-level Synthesis -- Word2Vec FPGA Accelerator Based on Spatial and Temporal Parallelism -- HPC & AI -- Analyzing I/O Performance of a Hierarchical HPC Storage System for Distributed Deep Learning -- An Advantage Actor-Critic Deep Reinforcement Learning Method for Power Management in HPC Systems -- An AutoML Based Algorithm for Performance Prediction in HPC Systems -- Embedded systems & Communication -- Edge-Gateway Intrusion Detection for Smart Home -- Energy-Delay Tradeoff in Parallel Task Allocation and Execution for Autonomous Platooning Applications -- A Reservation-based List Scheduling for Embedded Systems with Memory Constraints -- Formalization and Verification of SIP Using CSP -- Blockchain -- Towards a Blockchain and Fog-Based Proactive Data Distribution Framework for ICN -- Research on user

Sommario/riassunto

This book constitutes the proceedings of the 23rd International Conference on Parallel and Distributed Computing, Applications, and Technologies, PDCAT 2022, which took place in Sendai, Japan, during December 7-9, 2022. The 24 full papers and 16 short papers included in this volume were carefully reviewed and selected from 95 submissions. The papers are categorized into the following topical sub-headings: Heterogeneous System (1; HPC & AI; Embedded systems & Communication; Blockchain; Deep Learning; Quantum Computing & Programming Language; Best Papers; Heterogeneous System (2); Equivalence Checking & Model checking; Interconnect; Optimization (1); Optimization (2); Privacy; and Workflow.