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	Nota di contenuto	Algorithms and Applications -- High Resolution of City-Level Climate Simulation by GPU with Multi-Physical Phenomena -- dgQuEST: Distributed-GPU Accelerated Large Scale Quantum Circuit Simulation -- vSketchDLC: A Sketch on Distributed Deep Learning Communication via Fine-grained Tracing Visualization -- Scalable Algorithms Using Sparse Storage for Parallel Spectral Clustering on GPU -- XSP: Fast SSSP Based on Communication-Computation Collaboration -- A Class Of Fast And Accurate Multi-layer Block Summation And Dot Product Algorithms -- A KNN Query Method for Autonomous Driving Sensor Data -- System Software and Resource Management -- A Novel Task-Allocation Framework based on Decision-Tree Classification Algorithm in MEC --

QoS-Aware Scheduling for Cellular Networks Using Deep Reinforcement Learning -- Adaptive Buffering Scheme for PCM/DRAM-Based Hybrid Memory Architecture -- Efficiency-First Fault-Tolerant Replica Scheduling Strategy for Reliability Constrained Cloud Application -- Towards an Optimized Containerization of HPC Job Schedulers based on Namespaces -- Architecture of an On-time Data Transfer Framework in Cooperation with Scheduler System -- Storage -- Data Delta Based Hybrid Writes for Erasure-Coded Storage Systems -- BDCuckoo: An Efficient Cuckoo Hash for BlockDevice -- A Two Tier Hybrid Metadata Management mechanism for NVM Storage System -- A Novel CFLRU-based Cache Management Approach for NAND-based SSDs -- Networks and Communications -- Taming Congestion and Latency in Low-Diameter High-Performance Datacenters -- Evaluation of Topology-Aware All-reduce Algorithm for Dragon y Networks -- MPICC: Multi-Path INT-based Congestion Control in Datacenter Networks. .

| Sommario/riassunto | This book constitutes the proceedings of the 18th IFIP WG 10.3 International Conference on Network and Parallel Computing, NPC 2021, which was held in Paris, France during November 3-5, 2021. The 20 papers presented in this volume were carefully reviewed and selected from 62 submissions. They were organized in topical sections as follows: algorithms and applications; system software and resource management; storage; and networks and communications. |