

1. Record Nr.	UNINA9910523752103321
Titolo	Network and Parallel Computing : 18th IFIP WG 10.3 International Conference, NPC 2021, Paris, France, November 3–5, 2021, Proceedings // edited by Christophe Cérin, Depei Qian, Jean-Luc Gaudiot, Guangming Tan, Stéphane Zuckerman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-93571-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (277 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13152
Disciplina	004.35
Soggetti	Computer engineering Computer networks Software engineering Microprogramming Numerical analysis Computer Engineering and Networks Software Engineering Control Structures and Microprogramming Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
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.

---