

1. Record Nr.	UNINA9910483502503321
Titolo	Network and Parallel Computing : 10th IFIP International Conference, NPC 2013, Guiyang, China, September 19-21, 2013, Proceedings // edited by Ching-Hsien Hsu, Xiaoming Li, Xuanhua Shi, Ran Zheng
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-40820-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XIV, 418 p. 176 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8147
Disciplina	004.35
Soggetti	Computer engineering Computer networks Operating systems (Computers) Algorithms Computer Engineering and Networks Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Parallel Programming and Algorithms -- A Virtual Network Embedding Algorithm Based on Graph Theory -- Access Annotation for Safe Program Parallelization -- Extracting Threaded Traces in Simulation Environments -- A Fine-Grained Pipelined Implementation of LU Decomposition on SIMD Processors -- FRESA: A Frequency-Sensitive Sampling-Based Approach for Data Race Detection -- One-to-One Disjoint Path Covers in DCell -- Cloud Resource Management -- A Network-Aware Virtual Machine Allocation in Cloud Datacenter -- Research on the RRB+ Tree for Resource Reservation -- Totoro: A Scalable and Fault-Tolerant Data Center Network by Using Backup Port -- A Cloud Resource Allocation Mechanism Based on Mean-Variance Optimization and Double Multi-Attribution Auction -- ITC-LM: A Smart Iteration-Termination Criterion Based Live Virtual Machine Migration -- A Scheduling Method for Multiple Virtual Machines Migration in Cloud -- Parallel Architectures -- Speeding Up Galois Field Arithmetic on Intel MIC Architecture -- Analyzing the Characteristics of Memory

Subsystem on Two Different 8-Way NUMA Architectures --  
Software/Hardware Hybrid Network-on-Chip Simulation on FPGA --  
Total Exchange Routing on Hierarchical Dual-Nets -- Efficiency of  
Flexible Rerouting Scheme for Maximizing Logical Arrays -- An Efficient  
Crosstalk-Free Routing Algorithm Based on Permutation Decomposition  
for Optical Multi-log<sub>2</sub>N Switching Networks -- Conditional  
Diagnosability of Complete Josephus Cubes -- Circular Dimensional-  
Permutations and Reliable Broadcasting for Hypercubes and Möbius  
Cubes -- Multi-core Computing and GPU -- Accelerating Parallel  
Frequent Itemset Mining on Graphics Processors with Sorting --  
Asymmetry-Aware Scheduling in Heterogeneous Multi-core  
Architectures -- Scalable-Grain Pipeline Parallelization Method for  
Multi-core Systems -- An Effective Approach for Vocal Melody  
Extraction from Polyphonic Music on GPU -- Modified Incomplete  
Cholesky Preconditioned Conjugate Gradient Algorithm on GPU for the  
3D Parabolic Equation -- Partition-Based Hardware Transactional  
Memory for Many-Core Processors -- Miscellaneous -- Roadside  
Infrastructure Placement for Information Dissemination in Urban ITS  
Based on a Probabilistic Model -- Relay Hop Constrained Rendezvous  
Algorithm for Mobile Data Gathering in Wireless Sensor Networks --  
Energy Efficient Task Scheduling in Mobile Cloud Computing -- Bot  
Infer: A Bot Inference Approach by Correlating Host and Network  
Information -- On-demand Proactive Defense against Memory  
Vulnerabilities -- Mahasen: Distributed Storage Resource Broker --  
Probabilistic QoS Analysis of Web Services -- A Novel Search Engine to  
Uncover Potential Victims for APT Investigations.

---

Sommario/riassunto

This book constitutes the proceedings of the 10th IFIP International Conference on Network and Parallel Computing, NPC 2013, held in Guiyang, China, in September 2013. The 34 papers presented in this volume were carefully reviewed and selected from 109 submissions. They are organized in topical sections named: parallel programming and algorithms; cloud resource management; parallel architectures; multi-core computing and GPU; and miscellaneous.

---