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Soggetti	Software engineering Algorithms Computer networks Operating systems (Computers) Compilers (Computer programs) Microprocessors Computer architecture Software Engineering Computer Communication Networks Operating Systems Compilers and Interpreters Processor Architectures
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Platform-Adaptive High-Throughput Surveillance Video Condensation on Heterogeneous Processor Clusters -- Using Data Compression for Optimizing FPGA-based Convolutional Neural Network Accelerators -- Molecular docking Simulation Based on CPU-GPU Heterogeneous Computing -- FixCaffe: Training CNN with Low Precision Arithmetic Operations by Deep Learning Framework Caffe -- SysMon: Monitoring Memory Behaviors via OS Approach -- Self-adaptive Failure Detector for Peer-to-Peer Distributed System Considering the Link Faults -- A

Survey about Quantitative Measurement of Performance Variability in High Performance Computers -- GDCRT: In-Memory 2D Geographical Dynamic Cascading Range Tree -- Eleven Code: A 3-Erasure MDS Code with Optimize Partial Stripes Writes -- Parallel Peer Pressure Clustering Algorithm based on Linear Algebra Computation -- T-List: A Concurrent Skip List Balanced on Search.

Sommario/riassunto

This book constitutes the proceedings of the 12th International Symposium on Advanced Parallel Processing Technologies, APPT 2017, held in Santiago de Compostela, Spain, in August 2017. The 11 regular papers presented in this volume were carefully reviewed and selected from 18 submissions. They deal with the recent advances in big data processing; parallel architectures and systems; parallel software; parallel algorithms and artificial intelligence applications; and distributed and cloud computing.
