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Nota di contenuto	Restoring Survivable Spanning Tree: An Alternative Algorithm -- On the decycling problem in a torus -- Deep Learning Optimization for Many-Core Virtual Platforms -- Development of Low-Cost Indoor Positioning Using Mobile-UWB-Anchor- Configuration Approach -- BERT-CoQAC: BERT-based Conversational Question Answering in Context -- Streaming Algorithms for Monotone DR-submodular Maximization under a Knapsack Constraint on the Integer Lattice -- NASIL: Neural Network Architecture Searching for Incremental Learning in Image Classification -- Nonsubmodular Maximization with Knapsack Constraint via Multilinear Extension -- FEENET:A Real-time Semantic Segmentation via Feature Extraction and Enhancement -- Establishment and Parallel Implementation of Reconstruction Model for Multi-frame Solar Speckle Images -- Analysing and Forecasting Electricity Demand and Price Using Deep Learning Model during the COVID-19 Pandemic -- Cross-database micro expression recognition based on Apex frame optical flow and multi-head self-attention -- GPS intelligent solution of aerial image target in State Grid EIA survey -- Encryption and decryption in conic curves cryptosystem over fiite fiel GF(2^n) using tile self-assembly -- Optimizing embedding-related quantum annealing parameters for reducing hardware bias -- A

Behavioural Network Traffic Novelty Detection for the Internet of Things Infrastructures -- A fast algorithm for image segmentation based on Global Cosine Fitting Energy Model -- Household Garbage Classification A Transfer Learning Based Method and A Benchmark -- Lightweight Neural Network Based Garbage Image Classifiation Using a Deep Mutual Learning -- VBSSR: Variable Bitrate Encoded Video Streaming with Super-Resolution on HPC Education Platform -- An Investigation on the Performance of Highly Congested Home WiFi Networks during the COVID-19 Pandemic -- Using Feed-Forward Network for FastArbitrary Style Transfer with Contextual Loss -- Enhancing Underwater Image using Multi-scale Generative Adversarial Networks -- Inferring Prerequisite Relationships among Learning Resources for HPC Education -- Research on Bank Knowledge Transaction Coverage Model Based on Innovation Capacity Analysis -- Deep Deterministic Policy Gradient based Resource Allocation in Internet of Vehicles -- A Pufferfish Privacy Mechanism for the Trajectory Clustering Task -- A Novel Attention Model of Deep Learning in Image Classification -- FDRA: Fully Distributed Routing Architecture for Private Virtual Network in Public Cloud -- Energy Consumption Modeling for the PageRank Application in Spark -- Distributed Dense Tucker Decomposition based on Hierarchical SVD -- A Multi-Objective Task Offloading Strategy for Workflw Applications in Mobile Edge-Cloud Computing -- A Deep Reinforcement Learning based Feature Selector -- Automatic Thread Block Size Selection Strategy in GPU Parallel Code Generation -- SPORTS: A semi-partitioned real-time scheduler for heterogeneous multicore platforms -- Boosting Performance in Parallel Computing Models with a New Experimental Architecture -- RRW: A Reliable Ring Waveguide-based Optical Router for Photonic Network-on-Chips.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Symposium on Parallel Architectures, Algorithms and Programming, PAAP 2020, held in Shenzhen, China, in December 2020. The 37 revised full papers presented were carefully reviewed and selected from 75 submissions. The papers deal with research results and development activities in all aspects of parallel architectures, algorithms and programming techniques.