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Nota di contenuto	-- 25th International Conference on Parallel and Distributed Computing, Applications and Technologies. -- Decentralized Federated Learning with Knowledge Distillation for Image Classification and Demand Forecasting in Industrial Chains. -- Integrating Blockchain into Insurance Claim Management: Applications of NFTs, Smart Contracts and IPFS. -- A Meta-Reinforcement Learning Framework for Adaptive Quadrotor UAV Attitude Control. -- Securing Energy Transactions for Electric Vehicles: The Blockchain Approach and Encrypted NFTs. -- Optimizing Task Allocation in Heterogeneous

Agent Manufacturing Systems. -- MPG: Multi-Modal Personal Health Graph for Alzheimer's Disease Diagnosis. -- SMAC: A secure multi-authority access control scheme with attribute unifi cation for Fog enabled IoT in e-health. -- Convolutional Neural Networks Parameter Training for SCM Algorithm based on Hausdorff Difference. -- Handling Non-stationarity with Distribution Shifts and Data Dependency in Time Series Forecasting. -- The two-stage stochastic facility location game. -- Regularized non-monotone γ-weakly submodular maximization. -- Fed-MoE: Efficient Federated Learning for Mixture-of-Experts Models via Empirical Pruning. -- WaitIO-Hybrid: Communication for Coupling MPI Programs among Heterogeneous Systems. -- The Material Delivery Route Prediction Method Based on Deep Reinforcement Learning. -- Privacy-Preserving in Medical Image Analysis: A Review of Methods and Applications. -- Research on Task Migration Problem Based on Link Uncertainty in Adver sarial Scenarios. -- Optimizing Production Component Scheduling In Multivariate Industrial Networks With Dynamic Changes In Production Costs. -- Multi-Agent Collaboration for Time-Sensitive Tasks in Multiple Networked Adversarial Scenarios. -- Containerized Data-Flow Processing for Scalable Real-Time Analytics on Edge Devices. -- Fast Approximation for Scheduling Malleable Jobs on Parallel Batch Machines with Rejection. -- Real-Time and In-Situ Temperature Profiling for Determining Detonation of White Dwarf Mergers. -- accparser: A Standalone OpenACC Parser and its Usage on Mapping Ope nACC to OpenMP Directives. -- Out-of-Memory GPU Sorting using Asynchronous CUDA Streams. -- Long-Term and Periodicity-Aware Spatio-Temporal Model for Traffic Flow Prediction. -- A new approximation algorithm for two-machine flow shop with transporter coordinate. -- Enhancing Federated Learning Robustness in Non-IID Data Environments via MMD-Based Distribution Alignment. -- Multi-scale Time-frequency Representation for Multi-component Radar Signal Recognition. -- An LP-based approximation algorithm for the fault-tolerant facility location problem with penalties. -- A Q-Learning Driven Artificial Bee Colony Algorithm for Multi-Objective Multiplex Industrial Chain Networks Design with Multiple Supply Cycles. -- Complete Bipartite Graph Division Under Weakly Lexicographic Preferences. -- Multiagent Reinforcement Learning based on Structural Coordination. -- Fair Division of Indivisible Chores with Weighted and Prioritized Agents. -- An Efficient Incentive Mechanism for Collaborative Anomaly Detection in Internet of Things. -- Advancing Evasion: Highly Effective Distributed Backdoor Attacks in Federated Learning. -- DCAFNet: An Efficient Change Detection Structure for Remote Sensing Images. -- Feature norms-aware and Hardness guided Complementary Entropy Balanced Loss for Long-tailed Image Classification. -- Research on Two-stage Text Language Identification Algorithms for Chinese, Japanese, and Korean. -- Improved XGBoost-MLP model and application to performance prediction. -- STB-GraCapsNet: A Novel Capsule Network Structure with Swin Transformer Block. -- NAAM: Enhancing Automatic Task Mapping Efficiency on NUMA Machines. -- A Lightweight Garbage Classification Algorithm for Scenic Spots. -- Soft capacitated two-stage stochastic facility location problem. -- TSR: a Location Privacy Preservation Mechanism in Public Transportation Route Planning Service. -- Parallel Acceleration of Transportation Problem Solving Using SpMV in the Industrial Chain Context. -- Reinforcement Learning for Airline Multi-product Continuous Dynamic Pricing. -- I/O Latency Management in Private Cloud Infrastructures. -- UAV Swarm Collaborative Target Assignment Problem: A Deletion Robust Submodular Maximization Approach. --

Streaming algorithm for balance gain and cost with Knapsack constraint on the integer lattice. -- Decentralizing Energy Trading for Electric Vehicles using Blockchain Technology. -- Leveraging Hardware Performance Counters for Predicting Workload Interference in Vector Supercomputers. -- Intelligent Multi-agent Systems for UAV-Robot Path Optimization via Reflective Evolution. -- The hub location and flow assignment problem in the high-speed railway and highway co-transportation network. -- Predicting MPI communication for solving partial differential equations using Machine Learning. -- A CNN_LSTM_KAN based genetic algorithm for photovoltaic power generation revenue prediction. -- A Multiscale Global-Local Transformer for Long-Sequence PV power generation Forecasting.

Sommario/riassunto

This book constitutes the refereed proceedings of the 25th International Conference on Parallel and Distributed Computing, Applications and Technologies, PDCAT 2024, held in Hong Kong, China, during December 14–16, 2024. The 47 full papers and 8 short papers included in this book were carefully reviewed and selected from 114 submissions. They focus on advances in parallel and distributed computing, including parallel architectures, algorithms, and programming techniques.