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Autore	Klusacek Dalibor
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Nota di contenuto	-- How to make the ultimate goal of energy-efficient data centers a reality. -- Power-Aware Scheduling for Multi-Center HPC Electricity Cost Optimization. -- Job Grouping Based Intelligent Resource Prediction Framework. -- Kubernetes Scheduling with Checkpoint/Restore: Challenges and Open Problems. -- Adaptive Carbon-Aware scheduling policies for HPC systems. -- Resource elasticity for scientific platforms on HPC infrastructure. -- More for Less: Integrating Capability-Predominant and Capacity-Predominant

Computing. -- Workflow Batch Job Scheduling with Considering Task Dependencies. -- Quality-Aware Energy-Efficient Scheduling of Moldable-Parallel Streaming Computations on Heterogeneous Multicore CPUs with DVFS. -- Optimizing Energy Efficiency in Heterogeneous Computing via Multi-Objective Scheduling with Reinforcement Learning. -- Static powercap vs. EAR hard-powercap: Performance evaluation. -- Deep RC: A Scalable Data Engineering and Deep Learning Pipeline. -- Fedsort: An Optimized Federated Scheduling Strategy for Cloud Workloads with Inter-task Dependencies. -- Evaluating the Impact of Algorithmic Components on Task Graph Scheduling. -- Communication-balanced Job Allocation using SLURM. -- Performance Models to support HPC Co-Scheduling. -- ELiSE: A tool to support algorithmic design for HPC co-scheduling. -- Deadline Miss Minimization Scheduling for License-Constrained CAE Jobs in Hybrid Cloud Infrastructure.

Sommario/riassunto

This book constitutes the refereed proceedings of the 28th International Workshop on Job Scheduling Strategies for Parallel Processing, JSSPP 2025, held in Milan, Italy, during June 3-4, 2025. The 17 full papers and 1 keynote paper presented in this book were carefully reviewed and selected from 25 submissions. These papers covered interesting topics within the resource management and scheduling domains.