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Convolutional Hashing -- Comparison of Crash Simulations on Two Types of Flying Cars -- Centrality Resilience in Complex Networks -- A Customizable Agent-Based Simulation Framework for Emergency Departments -- Leveraging Positional Bias of LLM In-context Learning with Class-few-shot and Maj-Min Alternating Ordering -- Remote Sensing AI for Crop Planting in Wildfire Fuel Mapping -- Regularization Algorithm for Eliminating Singularities in the PIES Formula for 3D Multidomain Orthotropic Problems -- Advancing Bird Species Classification: A Fusion of Audio and Image Data -- Prototype-pairs Decomposition for Extracting Simple and Meaningful Rules -- Fast Prediction of Job Execution Times in the ALICE Grid Through GPU-Based Inference with Quantization and Sparsity Techniques -- Reversible Data Hiding in Encrypted Images with Pixel Prediction and ERLE Compression -- Information Flow Between Neighboring Housing Markets: A Case from the Seoul Metropolitan Area -- A Bi-Stage Framework for Automatic Development of Pixel-Based Planar Antenna Structures -- Investigation of CUDA Graphs Performance for Selected Parallel Applications -- Instance Selection by Fast Local Set Border Selector -- Modelling the Transient Evolution of Queues in Plugged-in Electric Vehicles (PEV) Fast Charging Stations -- Is Heterogeneous Model Soup Tasty? A Multidimensional Evaluation of Diverse Model Soups in Language Model Alignment -- Performance Evaluation of IMS/NGN Network with SDN-Based Transport Stratum -- Variable Resolution Machine Learning for Rapid Multi-Criterial Antenna Design -- A Fast and Scalable Genomic Data Compressor for Multicore Clusters -- Augmenting Ontologies with Competency Questions and Distant Supervision -- Modeling Firm Birth and Death Dynamics using Survival Fractions and Age Distributions -- Enhancing Sentiment Analysis through Multimodal Fusion: A BERT-DINOv2 Approach -- Modeling Parallel AI Applications for Performance Analysis on Cloud Environments -- Simplified Swarm Learning Framework for Robust and Scalable Diagnostic Services in Cancer Histopathology -- A Fast MPI-based Distributed Hash-Table as Surrogate Model for HPC Applications -- Rockburst Forecasting using Composite Modeling for Seismic Sensors Data -- Accelerating LBM with C++ STL Asynchronous Parallel Model -- Accelerating Cloud-Based Transcriptomics: Performance Analysis and Optimization of the STAR Aligner Workflow -- Adaptive Modular Housing Design for Crisis Situations -- Evaluating Parameter-Based Training Performance of Neural Networks and Variational Quantum Circuits -- Towards an Open Science – an Academic Recommendation Cloud Platform -- Algorithm Selection in Short-Range Molecular Dynamics Simulations -- SOPMOA*: Unleashing Shared-Open Parallelism for High-Performance Multi-Objective Pathfinding -- From Recursion to Parallelism: Plug & Play Dynamic Programming -- NeoN: A Tool for Automated Detection, Linguistic and LLM-Driven Analysis of Neologisms in Polish -- Surrogate Models for Analyzing Performance Behavior of HPC Applications Using RAJAPerf -- Cattle Identification using 2D Mask Retention Network -- Scaling Dynamics of the Electricity Utility Sector: Assessing the Role of Agglomeration Externalities and Sensitivity to Population Cutoffs in Spatial Dynamics Across European Regions -- Pollution Simulations and In-field Measurements Performed in March at Longyearbyen, Spitsbergen -- Reversed Model Verification by Inferring Conceptual Models from Simulation Code -- GPU-Accelerated Out-of-Core HMM Inference with Concurrent CUDA Streams -- Predicting Future Collaborations in A Scientific Community using Graph Neural Networks -- Data-Centric Parallel Programming Abstractions for High Performance Computations -- Neural Network for Evaluating the Operational Range of Antennas with Randomly

Generated Designs -- Optimizing U-Net Architecture Using Differential Evolution for Brain Tumor Segmentation -- Simulation Modelling of Clinical Decision making for Personalized Policy Identification -- Verified Eigenvalue Calculation for the Laplace Operator -- A Hybrid Q-LA approach to routing in Wireless Sensor Networks -- Improving Project-level Code Generation using Combined Relevant Context.

Sommario/riassunto

The 4-volume set LNCS constitutes the main proceedings of the 25th International Conference on Computational Science, ICCS 2025, which took place in Singapore, Singapore, during July 7–9, 2025. The 64 full papers and 52 short papers presented in these proceedings were carefully reviewed and selected from 162 submissions. The ICCS 2025 main track full papers are organized in volumes 15903–15905 (Parts I to III) and the ICCS 2025 main track short papers are included in volume 15906 (Part IV).
