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Nota di contenuto	-- Complex Data Management. -- LSM-Cache:An Efficient Log-Structured Merge Hybrid Key-Value Cache for Massive Small Objects. -- Monkey: Segmentation-based Lossless Floating-Point Compression.

-- DataAugmentation based Federated Client Selection with Bandit Approach. -- Text-to-Image Person Re-Identification via Optimal Transport-based Priority Distribution. -- GRAY: Enhancing Few-Shot NL2SQL Translation through Incremental SQL Log-Based Demonstration Expansion. -- RS-Stega: A Token-Level Quality-Control Framework for Generative Text Steganography. -- TrustGenTable: A Trusted Method for Generating Tabular Data. -- Enhancing Merge-Based PLA Compression under Higher Requirement for Data Precision. -- High-Performance Complex Event Matching over Out-of-Order Event Streams. -- Enhancing Data Compression through Vertical Distance-Based Piecewise Linear Approximation. -- Spatial and Temporal Data Management. -- PTP-PGAT: Partition Transition Probability and Pretraining Graph Attention Networks for Trajectory Representation. -- Efficient Processing of Dynamic Rank-happiness Maximization Queries. -- A parameter efficient short-term metro inter-station flow forecasting model with MMoE. -- Encoder-Decoder Driven Adaptive Multiscale-CNN Based Indoor Localization with WiFi Fingerprinting. -- HELM: Hybrid Spatial Index of Moving Objects at Large Scales Tuned with Multi-Agent Reinforcement Learning. -- Data Privacy and Trusted AI. -- PriTree: Accurate Range Queries via Hierarchical Prefix-sum under Local Differential Privacy. -- ASFRA-DP: Learning-Based Federated Spatial Query Processing with Density-Aware Privacy. -- SVD-based Trajectory Data Synthesis under Local Differential Privacy. -- An Efficient Federated Learning Privacy Preservation Method with Differential Privacy against Model Inversion Attack. -- Improve Visual Grounding with Dynamic Gating and Dual Stream Attention. -- Counterfactual Adversarial Examples for Mitigating Privacy Risk in Adversarially Robust Models. -- Data Management on New Hardwares. -- NALI: NUMA-aware Adaptive Learned Index for In-Memory Multi-core Databases. -- SAHSCM: Self-Activating and High-Speed Cryptographic Module for SATA Bridge Systems. -- UltraZenFS: A User-Space File System for LSM-tree based Key-Value Stores on Small-Zone ZNS SSDs. -- WROTree: Write and Range query Optimal Tree in Persistent Memory. -- Reducing Write Stall and Write Amplification for LSM-tree based Key-Value Stores Using a Hybrid Compression Strategy. -- Balance Performance and Cost: A Cold/Hot Data Classification Algorithm for NVM-SSD hybrid. -- Query Processing and Optimization. -- Towards Efficient Graph Similarity Search in Cloud Environments. -- APO: Adaptive Pathway Optimization for Complex Query Tasks Based on KV-stores. -- LH-DPT: An Update Efficient Index for High-Dimensional Approximate Nearest Neighbor Search. -- LSTM-based Query Performance Optimization in LSM-trees. -- Secure Location-Based Continuous Range Queries in Fog-based Cloud Computing. -- RLGCNt: Cardinality Estimation based on Rank Gauss Transform Coding and Attention. -- Continuous Top-k Skyline Pairs Query Over Data Stream. -- Probabilistic Optimization of Top-k Aggregation in Distributed Environments. -- ClassiCard: A Classifier Based Approach for Cardinality Estimation in Normalized Tables. -- Meta-Transfer Routing in Dynamic Road Networks via Hierarchical Graph Embedding. -- A Data Organization Architecture for Efficient Transaction Processing and Approximate AP Query in HTAP Systems. -- Data Mining II. -- Quadruple Modeling Network for Temporal Knowledge Graph Completion. -- Causal Inference for Alleviating Sequence Mutation in Sequential Recommendation. -- GraphADQ: Graph-Attentive Dual Deep Q-Network for Adaptive Community Detection. -- A Novel Temporal Heterogeneous Graph Learning-Based Anomaly Detection Method for Industrial Chain Evolution. -- Contrastive Learning of Graph Transformer on Heterogeneous

The four-volume set LNCS constitutes the refereed proceedings of the 9th International Joint Conference on Web and Big Data, APWeb-WAIM 2025, held in Shenyang, China, during August 28–30, 2025. The 136 full papers and 15 short papers presented in these proceedings were carefully reviewed and selected from 472 submissions. The papers are organized in the following topical sections: Part I: Data Mining I; Machine Learning I; Information Retrieval and Knowledge Management I; Graph Data Management and Analytics I; Complex Data Management. Part II: Complex Data Management; Spatial and Temporal Data Management; Data Privacy and Trusted AI; Data Management on New Hardwares; Query Processing and Optimization; Data Mining II. Part III: Data Mining II; Machine Learning II; Information Retrieval and Knowledge Management II; Graph Data Management and Analytics II; Big Data Management. Part IV: Big Data Management; LLM for Data Management; Information Retrieval; Demonstration Paper; Industry Paper.