



# Proceedings of the VLDB Endowment

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## LETTER FROM THE EDITORS IN CHIEF

Welcome to the thirteenth and final issue of Proceedings of the VLDB Endowment (PVLDB), Volume 15. PVLDB provides a high-quality publication service to the data management research community. Each volume offers twelve monthly submission deadlines on the first day of each month and a quick, six weeks, reviewing cycle. This publication model was pioneered by PVLDB and combines a journal-style reviewing process, which includes a three-month revision cycle, with the agility and visibility provided by rapid on-line publication, and presentation at the annual VLDB conference.

This issue contains 19 regular research papers, 1 scalable data science and 1 vision paper, which cover a variety of topics spanning key-value stores, graph mining, instance optimized databases, hardware acceleration, learning indexes and optimizers, blockchains, and data processing for data science. All papers in this issue were accepted after two rounds of review. This issue also includes “roll-over” papers that were accepted in 2022 to appear in volume 15 but will be presented at the 49th International Conference on Very Large Data Bases, 2023, in Vancouver, Canada.

The papers in issue explore high-dimensional data cubes, configuration of in-memory databases, weak supervision for interactive data programming, observability of machine learning pipelines, explaining data with interesting rows, key-value stores for disaggregated persistent memory, program slicing for notebooks, fairness for mining blockchains, fast and reliable sampling, witness generation for JSON schema, time series motif mining, acceleration of big data workloads using GPUs and FPGAs, discovering polarization using dense subgraphs, uncertain network analysis, graph mining in temporal graphs, learned indexes, query optimization using cost and learned models, online ride sharing, ontological reasoning, and indexes for approximate nearest neighbour queries,

PVLDB Volume 15 received a total of 949 research paper submissions consisting of 751 regular research papers, 113 Scalable Data Science papers, 69 Experiments, Analysis and Benchmark papers, and 16 vision papers. Amongst these, we selected 189 regular research papers, 31 Scalable Data Science papers, 29 Experiments, Analysis and Benchmark, and 3 vision papers to be published in Volume 15.

We sincerely thank all the authors for submitting their work and all the reviewers and associate editors for their outstanding service in reviewing the submissions. We hope that the readers will find the selected papers engaging, and thought provoking, providing valuable insights and inspiring follow-up research.

Fatma Özcan, Juliana Freire and Xuemin Lin  
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