



# Proceedings of the VLDB Endowment

Volume 15, No. 5 – January 2022

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PVLDB – Proceedings of the VLDB Endowment

Volume 15, No. 5, January 2022.

All papers published in this issue will be presented at the 48th International Conference on Very Large Data Bases, Sydney, Australia, 2022.

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Volume 15, Number 5, January 2022

Pages i – vi and 998 - 1131

ISSN 2150-8097

Available at: <http://www.pvldb.org> and <https://dl.acm.org/journal/pvldb>

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## LETTER FROM THE EDITORS IN CHIEF

Welcome to the fifth 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 10 papers: 8 regular research papers, and 2 experiments analysis & benchmark (EA&B) papers. Particularly, it covers papers in distributed database systems, graph databases, spatial data management, database engines, data privacy and security, blockchains, and learned data structures. All the papers in this issue are accepted after two rounds of review to achieve a high quality.

Sanghi et. al. propose a dynamic data generator, PiGen, that takes projection cardinality constraints into account. Jin and Salihoglu evaluate precomputed and value based joins, and propose using RID indices as filters, for computing edge traversals in graph queries in a relational engine. Deep et. al. study the problem of rank enumeration of results for join queries with projections. Shin et.al. describe Hippo, a system for optimizing hyper-parameter tuning by sharing common computation across trials. Rinberg et.al. present a space-efficient distributed JSON document store using conflict-free replicated data types. Zeighami et.al. propose spatial neural histograms, a learned data structure to support differentially private spatial range queries. Bonifati et.al provide a comprehensive theoretical analysis of threshold queries.

The EA&B paper by Maltry and Dittrich provides experimental evaluation of recursive model indexes (RMI) on real-world datasets to derive insight into their strengths and weaknesses. Ge et.al compare five different blockchain and database implementations that use CFT and BFT based consensus in terms of their throughput and latency and show that CFT designs show better performance than BFT designs.

All the papers in this issue will be presented at the 48th International Conference on Very Large Data Bases, 2022, in Sydney. 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 novel systems and algorithmic contributions and follow-up research.

Fatma Özcan, Juliana Freire and Xuemin Lin  
Editors-in-Chief of PVLDB Volume 15  
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