

## A MESSAGE FROM THE CHAIRS

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### PROGRAM COMMITTEE CO-CHAIRS



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ICDE is IEEE's TCDE flagship conference, focused on the efficient management of data. Now in its 40th edition, ICDE continues being a premier forum for data management and database researchers, vendors, practitioners, application developers, and users. This year it takes place in the beautiful city of Utrecht, The Netherlands. Data management in The Netherlands is an active topic of research and there are 12 research groups covering topics like Data Systems, Quality and Integration, Knowledge Representation, Provenance, Data Mining, Exploration, Information Retrieval and Data Analytics. A special Symposium (DBDBD) is organized yearly where Data Management Researchers from both Netherlands and Belgium meet and present their recent works. The Dutch government has been constantly investing millions of Euros yearly in AI and Data Science and this trend is expected to remain.

The data management field is witnessing rapid development in many areas, and ICDE offers a forum to learn, share, and discuss these advances. To capture this reality, this year's ICDE has an exciting program that includes three keynotes covering a wide range of interesting topics ranging from "*Duality: Converging the Worlds of Relational, Documents, and Graph to Simplify App Dev*" by Juan Loaiza (EVP Oracle) and Tirthankar Lahiri (SVP Oracle), to "*How serious are we about green computing? The impact of data intensive computing*" by Gustavo Alonso (Professor, ETH), to "*AI Systems beyond Accelerating Linear Algebra*" by Christos Kozyrakis (Professor, Stanford University). A panel on "*Data Management in the Cloud: Trends and Directions*" moderated by C. Mohan with renowned researchers from the data management area. A special track on Data Engineering Future Technologies (DEFT) chaired by Chair Beng Chin Ooi with 13 forward looking papers that provide visions for data engineering and analytics in the near future. And a Lightning Talks session (introduced in ICDE 2018) with 15 talks that present early-stage innovative ideas, chaired by Minos Garofalakis.

In keeping with the tradition, the conference also includes a research track consisting of the presentations of 376 papers, an industrial and application track with 21 papers, a demo track with 27 demonstrations, and a selected set of 7 tutorials, 8 workshops, and a PhD symposium..

The ICDE 2024 conference would not have been possible without the efforts of a large number of members of our community participating in the Technical Program Committee and the Organization Committee.

We would like to extend our sincere appreciation to the keynote speakers Juan Loaiza, Tirthankar Lahiri, Gustavo Alonso and Christos Kozyrakis, and to our panel moderator C. Mohan. Our deepest gratitude to the following Chairs for their outstanding and conscientious work in helping us put together an excellent program: Research Program Chairs BingSheng He, Gautam Das and Timos Sellis; Future Technologies Chair Beng Chin Ooi; Industry and Application Chairs Ashraf Aboulnaga, Fatma Ozcan and Peter Boncz; Demonstration Chairs Angela Bonifati, Asterios Katsifodimos, Wookey Lee; Lightning Talks Chair Minos Garofalakis; Tutorial Chairs Felix Naumann, Renata Borovica-Gajic and Xiaofang Zhou; Workshop Chairs George Fletcher and Steven Whang; PhD Symposium Chairs Alekh Jindal and Byron Choi; TKDE Posters Chair Shuhao Zhang. We also would like to extend our sincere gratitude for the excellent work to the rest of the Organization Committee: Proceedings Chair Odysseas Papapetrou; Sponsorship Chairs Yeye He, Torben Bach Pedersen and Zhiyong Peng; Registration Chair Rihan Hai; and Diversity and Inclusion Chairs Katerina Ioannou and Pinar Tozun.

The Program Committee chairs would especially like to thank the Area Chairs and members of the Technical Program Committee who, in spite of the unprecedented number of submissions (almost twice the number of submissions compared to ICDE 2023) and tight timelines, did an outstanding job in the reviews and discussions, thus ensuring that ICDE continues to live up to its reputation of being a premier database conference. This year out of the 376 papers accepted in the research track, 10 were accepted directly, 357 were accepted after revision, and 9 were accepted after a shepherding phase.

We want to thank all authors of submitted papers for their interest in the conference and to the authors of accepted papers for traveling to Utrecht to share their work with the ICDE community.

Special thanks to the local volunteers of the Data Intensive Systems group and the administrative personnel of Utrecht University, as well as those of the neighboring universities, the NSF grant recipients, and everyone else that helped in making this conference a success.

Finally, we are grateful to the financial support from the U.S. National Science Foundation and TCDE's contribution to enable student financial grants, and to all our sponsors whose support was essential to make this conference possible. We also want to thank the CMT team for their support with the submission site.

*We welcome you to ICDE 2024 in Utrecht and hope you enjoy the conference!*

### **General Chairs**

Malu Castellanos, Teradata, USA  
Yannis Velegrakis, Utrecht University, Netherlands

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Gautam Das, University of Texas at Arlington, USA  
Timos Sellis, Athena Research Center, Greece