

# Message from the Program Committee Chairs

## ICDM 2024

Welcome to the 24th IEEE International Conference on Data Mining (ICDM-2024)! Since its inception in 2001, the ICDM conference series has become a premier forum for researchers, users, practitioners, and developers to exchange and disseminate not only original research results, but also new research directions in data mining. The ICDM conference is a truly international forum. During its 24-year history, the conference has been held in twelve countries around the world. This year, the 24th IEEE ICDM is being hosted for the first time in The United Arab Emirates (UAE)! It will take place in Abu Dhabi, as an in-person event. It is our great pleasure to welcome you to ICDM 2024 and to present its proceedings.

This year's conference was highly competitive. We received 604 submissions from 50 different countries/regions across the globe. After an initial screening, 594 submissions entered the review process. Following previous years' policy, we implemented a triple-blind review process, ensuring that the reviewers do not know the identity of the authors or of the other individuals reviewing the same submission. This process is intended to remove bias during the paper discussions. Each paper was sent to 3~6 reviewers and one Area Chair who coordinated the review/discussion process. After PC review and discussion, the Area Chairs submitted their recommendations, and we consolidated all Area Chairs' recommendations and made the final decision. As a result of this thorough process, only 67 regular papers and 51 short papers were accepted. This corresponds to a full paper acceptance rate of 11.09% and an overall acceptance rate of 19.54%. Of all submissions, 61.4% had student first authors. Of all accepted papers, 66.1% had student first authors! These authors represent the future of our field!

We are excited about the new developments, especially the new paradigms, in data mining and machine learning, and included "advantages and potential limitations of data mining with large models" and "applications of data mining in climate science" as new topics of interest. We also believe that open source and data sharing are vitally important for the data mining community. Therefore, we followed two strategies to promote availability and reproducibility. First, we allow authors to specify their willingness of making their data and algorithms public during the paper submission stage. Such specifications are considered during the PC review and the recommendation stage. Once accepted, we require authors to include a link (such as a GitHub link or a project website) in the camera-ready version (either as a reference or a footnote) to share their resources with the community, if the authors have selected to share code/data when submitting the papers. This procedure allows us to comply with the triple-blind review policy and maximize the code/data sharing and reproducibility for the healthy development of our community.

In addition to the exciting technical presentations, our program also features four outstanding keynotes given by the internationally renowned, distinguished scientists Dr. Preslav Nakov (Mohamed bin Zayed University of Artificial Intelligence, UAE), Dr. Nuria Oliver (Vodafone Institute & Data-Pop Alliance, Spain), Dr. Claudia Plant (University of Vienna, Austria) and Dr. Bernard Schölkopf (Max Planck Institute for Intelligent Systems, Germany). One panel discussion from renowned experts in the field, a Women in Science Forum and three tutorials will nicely complete the main conference program. Furthermore, 6 demos and 24 workshops will make the ICDM-2024 program a wonderful journey for researchers, users, practitioners, and developers.

It takes a village to make such a wonderful event to happen! We would like to thank all those who invested their substantial efforts into making this conference what it is, starting with all the 2527 authors for submitting content for the conference. Reviewing and selecting papers from a large set of submissions required the coordinated effort of many individuals. We want to thank the 64 Area Chairs and 455 Program Committee members who provided insightful feedback to the authors and helped with this paper selection process.

Organizing the ICDM 2024 program required the time and expertise of numerous contributors. We are very thankful for the outstanding work of Dr. Yi He, Dr. Wassim Hamidouche and Dr. Imran Razzak who served as Workshop Chairs and put together 24 wonderful workshops, Dr. Geoff Webb who chaired the Best Paper and 10-Year Highest Impact Paper Award Committee, Dr. Sanjay Chawla and Dr. Sunil Aryal, who were the Tutorial Chairs and helped select and coordinate three tutorials, Dr. Reda Bouadjenek, Dr. Eleana Kafeza, and Dr. Abderrahmane Maaradji for serving as Demo Chairs, Dr. Evgenii Tsymbalov who served as registration chair and has been handling mountains of emails/inquiries from registrants, Dr. Xiaofeng Gao and Dr. Xiaochun Yang who served as our Women in Science Forum Chairs, Dr. Antonio De Domenico, Dr. Hai Dong, and Dr. Min Shi for their great work as the Publicity Chairs, Dr. Hakim Hacid and Maxim Panov who served as Local Chairs, Dr. Meikang Qiu who served as Sponsor Chair, and Dr. Kirill Fedyanin for his outstanding efforts to help maintain the ICDM-2024 website. The guidance of the Steering Committee Chair, Xindong Wu, the Honorary General Chairs, Prof. Fakhri Karray and Prof. Horst Simon, the General Chairs, Dr. Merouane Debbah, Dr. Panos Kalnis, and Dr. Ernesto Damiani, were invaluable throughout each step of the conference organization and we wish to express our appreciation to them for their tireless efforts. We thank Dr. Mingming Gong for being our point of contact and efficiently dealing with many enquiry emails from authors. We also would like to extend our special thanks to Dr. Paolo Garza, Dr. Luca Cagliero, Dr. Flavio Giobergia, Dr. Eliana Pastor, Dr. Guangyi Chen, Dr. Zijian Li, Dr. Yuewen Sun, and the PhD students from the DataBase and Data Mining (DBDM) Group at Politecnico di Torino and the Causal Learning and Reasoning (CLearR) group at MBZUAI and CMU for their help to support the conference.

Finally, we thank the US National Science Foundation (NSF) for providing generous support for our Student Travel Awards and thank all conference attendees and the ICDM community for their support of this premier conference. We hope you enjoy the ICDM-2024 conference and that you are inspired by the ideas found in these papers.

**Elena Baralis and Kun Zhang**

ICDM 2024 Program Committee Co-Chairs