

FOREWORD

Proceedings of ACML 2024

Editors: Vu Nguyen and Hsuan-Tien Lin

Welcome to the 16th edition of the Proceedings of Machine Learning Research (PMLR) for the Asian Conference on Machine Learning (ACML).

This volume contains 86 papers accepted to the 16th Asian Conference on Machine Learning (ACML 2024) held on December 05-08, 2024 in Hanoi, Vietnam. The papers are on a wide variety of contemporary state-of-the-art topics, including but not limited to computer vision, natural language processing, trustworthy machine learning, deep learning, optimization, unsupervised learning and theory as well as applications to real-world problems.

ACML aims at providing a leading international forum for researchers in machine learning and related fields to share their original research findings, new ideas and achievements. Continuing with ACML conference trends in recent years, highlighting its worldwide reach, ACML 2024 received submissions from authors in 41 countries from the Asia-Pacific as well as different parts of the world, such as Australia, Belgium, Canada, China, France, Germany, India, Israel, Japan, Korea, Netherlands, Poland, Singapore, Sweden, Taiwan, United Kingdom, United States, and Vietnam.

The conference was designed to be in-person, but a small number of pre-recorded presentations were allowed in case of last-minute visa issues. The conference received 353 submissions, comparable to 248 and 333 received in 2022 and 2023 respectively. The standard practice of double-blind reviewing process was followed, and each paper was assigned to one meta-reviewer, and received at least 3 reviews. The Program Committee (PC) had 318 PC members (reviewers) and 69 Senior PC members (meta-reviewers). Papers were allocated based on paper bidding and similarity of subject areas. The PC contributed their valuable time to provide expert reviews, ensuring the high standard of papers selected for the conference. We hope to express our sincere gratitude to each of our reviewers and meta-reviewers without whom the conference would not have been possible. Among the 353 submissions, 92 were initially accepted into the main program, with an acceptance rate of 26.1%. But we had to post-reject a few of them for reasons like absence from the presentation. After post-rejection and some withdrawals, 86 papers were included in this volume. This year the conference has two formats: long and short orals, in addition to poster presentations for all papers. Of the papers accepted to the conference track, 23 were selected for long oral presentations, including 4 distinguished presentations, while the remaining 63 papers were presented as short orals.

The journal track of ACML 2024 was overseen by the Journal Track Co-Chairs Kee-Eung Kim and Shou-De Lin. This track received 166 submissions and 48 papers were accepted for publication in the Springer Machine Learning Journal, corresponding to an acceptance rate of 28.9%. All journal-track papers are also presented in the conference with both orals

and posters. 14 of the journal track papers were selected as long oral presentations at the conference.

This year’s program featured four invited talks from leading experts on different topics and from different parts of the world: Thang Luong (Google Deepmind), Dinh Phung (Monash), Heng Li (UIUC), and Yisong Yue (Caltech).

In addition to the main program, we also had a full day of tutorials and workshops prior to the main conference organized by Tutorial Co-Chairs Tongliang Liu, Toan Tran, Viet Anh Nguyen, and Workshop Co-Chairs Nan Lu, Khoa Doan. Two tutorials were delivered on contemporary topics: (1) Efficient Pre-trained Model Tuning via Model Reprogramming, and (2) Causality and Large Models. In parallel to the tutorials, we had one workshop on Reliable and Trustworthy Artificial Intelligence.

We take the opportunity to thank all speakers and organizers for putting together a strong engaging program for the conference. ACML Steering Committee Co-Chairs, Wee Sun Lee, together with the Steering Committee, provided invaluable advice for the organization of the conference. The General Chair, Wray Buntine provided oversight over the entire conference, and worked tirelessly to put together all the different pieces for a very successful conference. The Workflows Co-Chair Mai Tan Ha, Seonghuyn Ban, and Keng-Te Liao handled the preparation of the proceedings and the journal. The Website Coordinators Duc Tran and Hai Tran helped in communications related to the conference. Special thanks to the Local Arrangement Co-Chairs Dung Le, Binh Huynh and Khoat Than and the Conference Managers Nhung Cao and Thuy Trinh for handling all the local arrangement issues.

We are also grateful to the generous sponsorship of our platinum sponsor VinUniversity, silver sponsor Monash University and bronze sponsor Innovator Hubs, DopikAI, New Turing Institute. We once again thank all speakers, authors, organizers, sponsors, volunteers and attendees for the success of ACML 2024!

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