Algorithmic Learning Theory 2022: Preface

Sanjoy Dasgupta   DASGUPTA@ENG.UCSD.EDU
University of California San Diego

Nika Haghtalab   NIKA@BERKELEY.EDU
University of California Berkeley

Editors: Sanjoy Dasgupta and Nika Haghtalab

These proceedings contain the 42 papers accepted for presentation at the 33rd International Conference on Algorithmic Learning Theory (ALT 2022), held on March 29 – April 1, 2022, in Paris and as well as virtually due to the COVID-19 pandemic. These papers were selected by the program committee, with the help of additional expert reviewers, out of 115 submissions.

ALT 2022 implemented a two-tiered dual-role reviewing system that reduced the overall reviewing burden on the community while also maintaining the overall high quality of the review process. In this structure, senior program committee members served as two roles: directly writing reviews for some papers, while acting as meta-reviewers on others. Each paper was reviewed by at least one senior program committee member as well as 2-3 regular members of the committee. All together, 47 senior members and 64 regular members served on the ALT 2022 program committee. Each accepted paper was presented in a 20-minute talk slot that included 5 minutes of Q&A.

Besides the presentations of the accepted papers, the conference featured keynote presentations by Sebastien Bubeck and Lenka Zdeborova. In addition to the conference, for the second year ALT sponsored a 1-day Mentorship Workshop held virtually on March 14-15, 2022 and organized by the Learning Theory Alliance.

Chen-Yu Wei, Chris Dann, and Julian Zimmert received the Best Paper Award for their work titled "A Model Selection Approach for Corruption Robust Reinforcement Learning". The E. M. Gold Best Student Paper award was given to Lunjia Hu and Charlotte Peale, for their joint work with Omer Reingold titled "Metric Entropy Duality and the Sample Complexity of Outcome Indistinguishability".

We wish to thank our local organization chairs Quentin Berthet and Vianney Perchet, our sponsorship chairs Lev Reyzin and Gergely Neu, and our publication chair Chicheng Zhang for their dedicated work that helped make the conference a success. We also thank all the members of the ALT steering committee for their guidance and support throughout the entire process. We would like to express our gratitude to the entire program committee for their hard work during the review process amid the challenging conditions of the pandemic. Finally, we would like to thank our generous sponsors: Apple, Baidu, DeepMind, Google, Huawei (Gold level) and Bosch (Silver).

Sanjoy Dasgupta and Nika Haghtalab
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