

NeurIPS 2020 Competition and Demonstration Track

Revised selected papers

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The Competition and Demonstration Track at NeurIPS is now an established forum that allows scientist and practitioners of machine learning to interact with each other and with cutting edge machine learning technology. On the one hand, competitions pose well-structured, relevant, and challenging problems to the community at large. Participants contribute to solving such problems, learn and have fun, as well as contributing to the advancement of the state of the art in these relevant domains. Demonstrations, on the other hand, offer a complementary dimension to the competitions, focusing on areas of machine learning which are highly interactive or demonstrable, or which create inspiring dialog between demo presenters and attendees. Demonstrators showcase their technology, encouraging the participation of NeurIPS attendees as users, instead of contributors of such technology, and raising new questions or perspectives about their uses.

This volume compiles a selection of papers associated with the fourth edition of the Demonstration and Competition Track at NeurIPS 2020. The track comprised 16 competitions and 20 demonstrations. Competition and demonstration proposals were subject to a strict reviewing process to ensure the quality of the accepted events. After a selective process, the accepted competitions and demonstrations were featured at the NeurIPS 2020 main conference. A wide diversity of machine learning topics were covered with competitions and demonstrations. The latter included innovative ways of interacting with participants due to the virtual format of NeurIPS2020.

As in the previous edition, for compiling this volume we launched a call for papers targeting organizers of the Competition and Demonstration track. All submissions were subject to a strict reviewing process that resulted in the acceptance of 19 papers, covering a wide diversity of topics. Together, this compilation is a snapshot of what happened in terms of Competitions and Demonstrations at NeurIPS 2020. We are certain this volume will push further research in different fronts, inspiring researchers and practitioners to approach the problems associated with the raised challenges in novel ways. In addition, we believe that it serves as a valuable reference for future competition organizers and demonstration authors. We hope you enjoy this volume and that you consider joining the Competitions and Demonstration track at NeurIPS in future editions.

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