Proceedings of the Thirty-Seventh Conference on Uncertainty in Artificial Intelligence

Preface

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UAI 2021

Introduction The Conference on Uncertainty in Artificial Intelligence (UAI) is one of the premier international conferences on research related to knowledge representation, learning, and reasoning in the presence of uncertainty. UAI is supported by the Association for Uncertainty in Artificial Intelligence (AUAI).

The 37th edition of the conference (UAI 2021) took place from July 27 to 30, 2021. It was held online due to the restrictions imposed by the ongoing Covid pandemic.

Accepted papers and reviewing We received 777 full submissions, of which 83 were desk-rejected or withdrawn, and 205 were ultimately accepted. This volume features all accepted papers.

The program committee consisted of two chairs, 59 senior and 611 regular members (see Tables 1 and 2 below). All submitted papers had at least three reviews, and the large majority had four. The reviewing process was double-blind, but program committee members knew each others' identities. The authors could provide a rebuttal to the reviews and there was a discussion phase. The senior members rated the reviews and incentives were provided to top reviewers.

On-line venues We used three systems to allow for different kinds of online interactions: underline.io provided the main conference website and was used for oral presentations, Gather.town was used for poster presentations, and Mementor was used for mentoring sessions. While there were a few technical glitches, the systems worked quite smoothly in general.

Participants There were 2099 registrations from at least 67 countries. About two-thirds of these were student registrations.

The program The main program took place from July 27 to 29 and consisted of a single-track with six blocks

starting 12 hours apart. Each block was composed of a live keynote talk, oral paper presentations with live discussants, live lightning talks, and a poster session.

We are very glad that we had the following keynote speakers:

- Susan Murphy, Harvard University, USA
- Eric Horvitz, Microsoft, USA
- · Lenka Zdeborová, EPFL, Switzerland
- Judea Pearl, UCLA, USA
- Ankur Moitra, MIT, USA

The program was designed so that every accepted paper had two live components. First, all accepted papers had a poster in Gather.town. Second, each paper was featured by either a 1-minute live lightning talk or by showing an 8-minute prerecorded video presentation followed by a live discussant and live Q&A with the author. The selection between 8-minute and 1-minute formats was based on both the paper contents and the submitted video presentation.

The conference website contained complete information for each submission, including the full paper and supplementary material, the poster, the 8-minute video and slides, and a Q&A system to interact with the authors.

On July 30, there were three parallel workshops:

- The 8th Causal Inference Workshop
- The 15th Bayesian Modelling Applications Workshop
- The 4th Workshop on Tractable Probabilistic Modeling

Best paper awards The following five papers have received an award:

Best paper:

• "Measuring data leakage in machine-learning models with Fisher information" by Awni Hannun, Chuan Guo, and Laurens van der Maaten.

Runner-ups to best paper:

• "Unbiased gradient estimation for variational autoencoders using coupled Markov chains" by Francisco Ruiz, Michalis Titsias, Taylan Cemgil, and Arnaud Doucet.

• "Approximate implication with d-separation" by Batya Kenig.

Best student paper:

 "Extendability of causal graphical models: algorithms and computational complexity" by Marcel Wienöbst, Max Bannach, and Maciej Liśkiewicz.

Runner-up to best student paper:

 "Classification with abstention but without disparities" by Nicolas Schreuder and Evgenii Chzhen.

ORGANIZING COMMITTEE

The main organizing committee consisted of the following people:

General Chairs

- Jonas Peters, University of Copenhagen, Denmark
- David Sontag, MIT, USA

Program Chairs

- Cassio de Campos, Eindhoven University of Technology, The Netherlands
- Marloes Maathuis, ETH Zurich, Switzerland

Workshop Chair

• Silvia Chiappa, DeepMind, UK

Publication Chair

• Erik Quaeghebeur, Eindhoven University of Technology, The Netherlands

Sponsorship Chair

• Irina Rish, *Université de Montréal and Quebec AI Insti*tute, Canada

Virtual Chairs

- · Christina Heinze-Deml, ETH Zurich, Switzerland
- Sebastian Weichwald, University of Copenhagen, Denmark

Program Committee Without the volunteers in the program committee, the conference would not have been possible. We are extremely grateful for the efforts of all its members.

The senior members of the program committee are listed in Table 1. The regular members of the program committee are listed in Table 2, where top reviewers' names are in bold.

ACKNOWLEDGEMENTS

We sincerely thank everyone who contributed to UAI 2021, including the authors of submitted papers, the members of the organizing committee and the program committee, the workshop organizers, the participants, Underline, the AUAI board, and our sponsors.

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Marco Zaffalon	Dalle Molle Institute for AI Artificialy
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Robin Evans	University of Oxford
Marco Valtorta	University of South Carolina
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Alex Luedtke, Emilija Perkovic, Thomas S. Richardson	University of Washington
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Table 2: The Members of the Program Committee (top reviewers in bold)

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Ido Guy	eBay
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