The 35th Uncertainty in Artificial Intelligence Conference: Preface

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The Conference on Uncertainty in Artificial Intelligence (UAI) is the premier international conference on research related to representation, inference, learning and decision making in the presence of uncertainty within the field of Artificial Intelligence. This volume contains all papers that were accepted for the 35th UAI Conference, held in Tel Aviv, Israel from July 22 to 25, 2019.

Papers appearing in this conference were subjected to a rigorous review process. A total of 450 papers were submitted, and our aim was to have each of these receive five high quality reviews, with every paper receiving at least three. Of these submitted papers, 118 were accepted, for an acceptance rate of approximately 26%. We are very grateful to the program committee and senior program committee members for their diligent efforts. We are confident that these proceedings, like past UAI conference proceedings, will become an important archival reference for the field.

We are pleased to announce that the Best Paper Award was awarded to Sanghack Lee, Juan D. Correa, and Elias Bareinboim for their paper "General Identifiability with Arbitrary Surrogate Experiments." The Best Student Paper Award was awarded to Topi Talvitie, Aleksis Vuoksenmaa, and Mikko Koivisto for their paper "Exact Sampling of Directed Acyclic Graphs from Modular Distributions."

In addition to the presentation of technical papers, we were very pleased to have five distinguished invited speakers at UAI 2019: Rina Dechter (UC Irvine), Suchi Saria (Johns Hopkins University), Emma Brunskill (Stanford University), Stefanie Jegelka (MIT), and Yee Whye Teh (Oxford University and Deepmind).

The UAI 2019 program consisted of four invited tutorials: "Tractable Probabilistic Models: Representations, Algorithms, Learning, and Applications" by Guy Van den Broeck (UCLA), Nicola Di Mauro (Universit degli Studi di Bari), and Antonio Vergari (UCLA); "Mixing Graphical Models and Neural Nets Like Chocolate and Peanut Butter" by Matthew Johnson (Google Brain); "Causal Reinforcement Learning" by Elias Bareinboim (Columbia University); and "Mathematics of Deep Learning" by Raja Giryes (Tel Aviv University).

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Acknowledgements

The success of UAI depends greatly on the efforts of many individuals who volunteer their time to provide expert and detailed reviews of submitted papers. In particular, the Program Committee and Senior Program Committee for UAI 2019 were responsible for generating reviews and recommendations for the submissions to the conference. All submissions were reviewed by at least three and at most five members of the Program Committee; most submissions received five reviews. The Senior Program Committee then assessed the individual reviews for each paper, moderated discussion among Program Committee members if needed, and generated meta-reviews and recommendations for the program chairs. We are extremely grateful for the efforts of all of the individuals listed below.

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Best Paper

General Identifiability with Arbitrary Surrogate Experiments
Sanghack Lee, Juan D. Correa and Elias Bareinboim

Best Student Paper

Exact Sampling of Directed Acyclic Graphs from Modular Distributions
Topi Talvitie, Aleksis Vuoksenmaa and Mikko Koivisto