

Preface

We are pleased to present the *Proceedings of the UAI 2014 Workshop on Causal Inference: Learning and Prediction*, held in Quebec City, Canada, on July 27, 2014, as a workshop of the 30th Conference on Uncertainty in Artificial Intelligence (UAI 2014). This workshop is the third in a series of UAI workshops on the topic of causality, following up on two successful predecessors, the *UAI Workshop on Causal Structure Learning 2012* and the *Approaches to Causal Structure Learning Workshop, UAI 2013*.

The aim of this workshop was to bring together researchers interested in the challenges of causal inference from observational and interventional data, especially when confounding variables, feedback loops or selection bias may be present. For this workshop, we decided to extend the scope from causal structure learning to include methods for making causal predictions, i.e., for predicting what happens under interventions. We especially encouraged contributions describing practical applications of causal methods.

There were 8 submissions, all full-length papers, each of which was peer-reviewed by two or three program committee members. We accepted five of these for oral presentation and for inclusion in these proceedings. The proceedings also include abstracts for three invited talks, including the two key-note talks by Robert Spekkens and Elias Bareinboim. Slides of most of the oral presentations are available on the workshop website:

<https://staff.fnwi.uva.nl/j.m.mooij/uai2014-causality-workshop/index.html>

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