Preface

This volume contains the papers presented at the Second Workshop on Logics for Reasoning about Preferences, Uncertainty, and Vagueness (PRUV 2018), which was held on July 19th, 2018, in Oxford, UK. As its predecessor, PRUV 2018 was a satellite event for the International Joint Conference on Automated Reasoning (IJCAR 2018), and a part of the Federated Logic Conference (FLoC).

The workshop received 8 submissions in total. Each submission was reviewed by at least three program committee members; one submission received four reviews. After careful consideration and discussions, the committee decided to accept all 8 papers. In addition, the workshop had two invited talks—one given by Marcelo Finger and one by Konstantin Korovin.

Originally, managing preferences, uncertainty, and vagueness has in particular been explored in the field of artificial intelligence (AI). During the recent years, especially with the availability of massive amounts of data in different repositories and the possibility of integrating and exploiting these data, technologies for managing preferences, uncertainty, and vagueness have started to play a key role in other areas, such as databases and the (Social or Semantic) Web. These application areas have sparked another wave of strong interest into logics for dealing with preferences, uncertainty, and vagueness. Important examples are fuzzy and probabilistic approaches for description logics or rule systems for handling vagueness and uncertainty in the Semantic Web, or formalisms for handling user preferences in the context of ontological knowledge in the Social Semantic Web.

The aim of PRUV is to bring together people from different scientific communities (such as the AI and the Semantic Web community, among others), including theorists and practitioners, working on logics for reasoning about preferences, uncertainty, and vagueness. Making researchers aware of and fruitfully discuss the most recent application areas, new challenges, and the existing body of work on logics for reasoning about preferences, uncertainty, and vagueness is the main goal of this meeting.

We want to thank all the authors, members of the programme committee, external reviewers, and the invited speakers. The success of PRUV was only made possible through their combined efforts.

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