Preface

This volume contains the papers presented at Datalog 2.0 2019: the 3rd International Workshop on the Resurgence of Datalog in Academia and Industry held on June 4–7, 2019 in Philadelphia. Datalog 2.0 2019 is a major event of the Philadelphia Logic Week 2019, which is dedicated to the research on logic, knowledge representation, and reasoning. Among the other major events of the Philadelphia Logic Week 2019 there is the 15th International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR 2019), and the two events shares an invited talk by Michael Gelfond and a couple of sessions. Moreover, the invited tutorial by Francesco Ricca was open to attendees of LPNMR 2019 Workshops.

Datalog 2.0 is a workshop for Datalog researchers, implementors, and users. Its aim is to bring together researchers and practitioners interested in different aspects of Datalog to share research experiences, promote collaboration and identify directions for joint future research. The first edition of Datalog 2.0 was held in Oxford, UK, in 2010, and it was by invitation only. Since Datalog has resurrected as a lively topic with applications in many different areas of computer science, as well as industry, the second edition of the workshop, which was held in Vienna, Austria, in 2012, was open for submissions.

This edition of the workshop was also open for submissions, and 10 groups of researchers submitted their articles to the peer review process. Each submission was reviewed by at least 3 program committee members, and the committee decided to accept 7 papers, based on their technical merit and potential for stimulating discussions at the workshop. The program also includes 3 invited talks by Molham Aref, Michael Gelfond and Torsten Schaub, and 1 invited tutorial by Francesco Ricca.

We thank RelationalAI\(^1\) for sponsoring the invited talk by Molham Aref, and Potassco Solutions\(^2\) for sponsoring the invited talk by Michael Gelfond. We also acknowledge EasyChair\(^3\) for providing their conference management system that significantly simplified the whole process from receiving the submissions to producing the proceedings. Finally, we thanks all the authors who contributed to the workshops and the Program Committee members for their effort to produce timely and wise reviews.

May 28, 2019 Mario Alviano

Andreas Pieris

\(^1\) http://relational.ai/
\(^2\) https://potassco.com/
\(^3\) https://easychair.org/
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