DL 2014

27th International Workshop on Description Logics

July 17–20, 2014

Vienna, Austria

Preface

The International Workshop on Description Logics is the main annual event of the description logic research community. It is devoted to discussing developments and applications of knowledge representation formalisms and systems based on description logics. The workshop explicitly welcomes submissions from researchers that are new to the area and provides quality feedback via peer reviewing, while at the same time being of an inclusive nature with a very high acceptance rate. There are only informal (electronic) proceedings and "publication" at the workshop is not supposed to preclude publication at conferences. More information, as well as the list of the previous editions of the workshop, can be found at http://dl.kr.org.

The 27th edition of the International Workshop on Description Logics was held in Vienna, Austria, on July 17–20, 2014, as part of the Vienna Summer of Logic. This year, a total of 80 papers were submitted, involving authors from 24 countries. Each submission was reviewed by at least three members of the program committee, or additional reviewers recruited by the PC members. A total of 34 papers were selected for oral presentation, and 36 papers were selected for poster presentation.

As in recent years, a Distinguished Student Paper Award was presented to the authors of a student paper, i.e., a paper that was authored independently by researchers who have not received a doctoral degree yet. This year's award went to Stefan Borgwardt for his paper "Fuzzy DLs over Finite Lattices with Nominals" which contributes to our understanding of the complexity of reasoning in fuzzy description logics.

In addition to the presentation of the accepted papers, posters, and demos, the program featured three invited talks, which were given by Michael Benedikt, Patrick Blackburn, and Alon Y. Halevy. The abstracts of their talks are included in this volume. The talk by Patrick Blackburn was given as part of a joint session with the 15th International Workshop on Non-Monotonic Reasoning (NMR).

Our thanks go to all the authors, invited speakers, PC members, and additional reviewers who made the technical program possible. We'd also like to acknowledge the foundation for Principles of Knowledge Representation and Reasoning (KR Inc.) for financial support and EasyChair for providing a convenient and efficient platform for preparing the program. Last but not least, a warm thank you to all of the participants of DL 2014. We hope that attending the workshop has been an enjoyable and stimulating experience.

July 2014

<div align="right">

Meghyn Bienvenu
Magdalena Ortiz
Riccardo Rosati
Mantas Simkus

</div>

Workshop Organization

General Chairs

Magdalena Ortiz   Vienna University of Technology, Austria
Mantas Simkus   Vienna University of Technology, Austria

Program Chairs

Meghyn Bienvenu   CNRS & Paris-Sud University, France
Riccardo Rosati   Sapienza University of Rome, Italy

Program Committee

Alessandro Artale	Free University of Bozen-Bolzano, Italy
Franz Baader	TU Dresden, Germany
Meghyn Bienvenu	CNRS & Paris-Sud University, France
Alex Borgida	Rutgers University, USA
Diego Calvanese	Free University of Bozen-Bolzano, Italy
Bernardo Cuenca Grau	University of Oxford, UK
Enrico Franconi	Free University of Bozen-Bolzano, Italy
Laura Giordano	Università del Piemonte Orientale, Italy
Birte Glimm	University of Ulm, Germany
Pascal Hitzler	Wright State University, USA
Yevgeny Kazakov	University of Ulm, Germany
Evgeny Kharlamov	University of Oxford, UK
Stanislav Kikot	Birkbeck College, UK
Pavel Klinov	University of Ulm, Germany
Boris Konev	University of Liverpool, UK
Roman Kontchakov	Birkbeck College, UK
Markus Krötzsch	TU Dresden, Germany
Domenico Lembo	Sapienza University of Rome, Italy
Maurizio Lenzerini	Sapienza University of Rome, Italy
Carsten Lutz	University of Bremen, Germany
Thomas Meyer	UKZN and CSIR Meraka, South Africa
Boris Motik	University of Oxford, UK
Ralf Möller	Hamburg University of Technology, Germany
Linh Anh Nguyen	University of Warsaw, Poland
Jeff Z. Pan	University of Aberdeen, UK
Bijan Parsia	University of Manchester, UK
Peter Patel-Schneider	Nuance Communications, USA
Rafael Peñaloza	TU Dresden, Germany

Antonella Poggi	Sapienza University of Rome, Italy
Guilin Qi	Southeast University, China
Mariano Rodriguez-Muro	Free University of Bozen-Bolzano, Italy
Riccardo Rosati	Sapienza University of Rome, Italy
Marie-Christine Rousset	University of Grenoble, France
Sebastian Rudolph	TU Dresden, Germany
Vladislav Ryzhikov	Free University of Bozen-Bolzano, Italy
Uli Sattler	University of Manchester, UK
Renate A. Schmidt	University of Manchester, UK
Thomas Schneider	University of Bremen, Germany
Luciano Serafini	Fondazione Bruno Kessler, Italy
Bariş Sertkaya	SAP Research Center Dresden, Germany
Inanc Seylan	University of Bremen, Germany
Viorica Sofronie-Stokkermans	Max-Planck Institute, Germany
Giorgos Stamou	National Technical University of Athens, Greece
Giorgos Stoilos	National Technical University of Athens, Greece
Umberto Straccia	ISTI-CNR, Italy
David Toman	University of Waterloo, Canada
Dmitry Tsarkov	University of Manchester, UK
Anni-Yasmin Turhan	TU Dresden, Germany
Dirk Walther	TU Dresden, Germany
Kewen Wang	Griffith University, Australia
Zhe Wang	Griffith University, Australia
Grant Weddell	University of Waterloo, Canada
Frank Wolter	University of Liverpool, UK
Michael Zakharyaschev	Birkbeck College, UK

Additional Reviewers

Babak Baheri	Ernesto Jimenez-Ruiz	Denis Ponomaryov
Fernando Bobillo	Yongbin Kang	Yuan Ren
Stefan Borgwardt	Szymon Klarman	Martin Rezk
Botoeva, Elena	Ilianna Kollia	Marvin Schiller
Loris Bozzato	Patrick Koopmann	Kunal Sengupta
David Carral	Seifeddine Kramdi	Andreas Steigmiller
Giovanni Casini	Marcel Lippmann	Daniele Theseider Dupré
Marco Cerami	Michel Ludwig	Michaël Thomazo
Alexandros Chortaras	Theofilos Mailis	Veronika Thost
Riccardo De Masellis	Francisco Martin-Recuerda	Trung-Kien Tran
Andreas Ecke	Tomas Masopust	Despoina Trivela
Valentina Gliozzi	Kody Moodley	Eleni Tsalapati
Víctor Gutiérrez Basulto	Christian Neuenstadt	Benjamin Zarrieß
Matthias Horbach	Hai Nguyen	Yuting Zhao
Ullrich Hustadt	Özgür L. Özcep	Dmitriy Zheleznyakov