

The ICLP 2014 Doctoral Consortium

MARTIN GEBSER

*Helsinki Institute for Information Technology HIIT
Department of Information and Computer Science
Aalto University, Finland*

JAEK KRIENER

*Microsoft Research–Inria
Joint Centre
Saclay, France*

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The ICLP 2014 Doctoral Consortium (DC) is the tenth doctoral consortium collocated with the 30th International Conference on Logic Programming (ICLP), the Federated Logic Conference (FLoC), and the Vienna Summer of Logic (VSL). The ICLP 2014 DC follows the very positive experience of previous events held in Sitges (Spain) on October 3rd, 2005, in Seattle (WA, USA) on August 21st, 2006, in Porto (Portugal) on September 8th, 2007, in Udine (Italy) on December 10th, 2008, in Pasadena (CA, USA) on July 15th, 2009, in Edinburgh (Scotland) on July 20th, 2010, in Lexington (KY, USA) on July 6th, 2011, in Budapest (Hungary) on September 4th, 2012, and in Istanbul (Turkey) on August 24th, 2013.

The ICLP 2014 DC, held in Vienna (Austria) on July 20th, 2014, provides a forum for doctoral students working in areas related to logic programming. We received eight applications, pointing out the high value and interest of such an event for young academics. It is a particular pleasure for us to acknowledge the eligibility and high quality of all applications, each of which was peer-reviewed by three program committee members or additional reviewers. The final ICLP 2014 DC program thus features eight contributions by doctoral students with the following countries of affiliation: Australia, Belgium, Egypt, Germany (two contributions), Italy, Poland, and United Kingdom. The proceedings of the ICLP 2014 DC provide the research summaries contributed by the student participants. We invite the reader to dwell into exciting research fields and topics explored by young academics. Please enjoy!

We thank the general chair, Manuel Carro, the program chairs, Michael Leuschel and Tom Schrijvers, as well as the workshop chair, Haifeng Guo, of the 30th International Conference on Logic Programming for their help in organizing the ICLP 2014 DC. We especially acknowledge the Association for Logic Programming (ALP) for financial travel support enabling the participation of doctoral students in the ICLP 2014 DC. We are grateful to the program committee as well as the additional reviewers for their excellent work to carefully review applications and to provide constructive feedback. Last but not least, we thank the student participants for their invaluable contributions, which are the key ingredient for the success of the ICLP 2014 DC!

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Martin Gebser and Jael Kriener

Contributors

Rehan Abdul Aziz	Bound Founded Answer Set Programming
Joachim Jansen	Model Revision Inference for Extensions of First Order Logic
Grzegorz Jaśkiewicz	Logic Programming as Scripting Language for Bots in Computer Games – Research Overview
Michael Morak	The Impact of Disjunction on Reasoning under Existential Rules: Research Summary
Aya Saad	CDF-Intervals: A Reliable Framework to Reason about Data with Uncertainty
Nada Sharaf	Visualization of Constraint Handling Rules
Heike Stephan	Application of Methods for Syntax Analysis of Context-Free Languages to Query Evaluation of Logic Programs
Riccardo Zese	Reasoning with Probabilistic Logics

Officials**Program Chairs**

Martin Gebser	Aalto University
Jael Kriener	Microsoft Research–Inria

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Ekaterina Komendantskaya	University of Dundee
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Jose F. Morales	IMDEA Software Research Institute
Francesco Ricca	University of Calabria
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Joost Vennekens	K.U. Leuven
Antoine Zimmermann	École Nationale Supérieure des Mines de Saint-Étienne

Additional Reviewers

Matthias Nickles	National University of Ireland
Salim Perchy	École Polytechnique de Paris