

The ICLP 2013 Doctoral Consortium

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The ICLP 2013 Doctoral Consortium (DC) is the ninth doctoral consortium collocated with the 29th International Conference on Logic Programming (ICLP). The ICLP 2013 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, and in Budapest (Hungary) on September 4th, 2012.

The ICLP 2013 DC, held in Istanbul (Turkey) on August 24th, 2013, provides a forum for doctoral students working in areas related to logic programming. We received 14 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 two program committee members or additional reviewers. The final ICLP 2013 DC program features 13 contributions (one applicant had to withdraw) by doctoral students with the following countries of affiliation: Italy and United States of America (3 contributions each), Belgium (2 contributions), Austria, Germany, Portugal, Spain, and United Kingdom. This volume of Theory and Practice of Logic Programming provides the research summaries contributed by student participants of the ICLP 2013 DC. We invite the reader to dwell into exciting research fields and topics explored by young academics. Please enjoy!

We thank the general co-chairs, Esra Erdem and Joohyung Lee, the program co-chairs, Evelina Lamma and Terrance Swift, as well as the publicity chair, Peter Schüller, of the 29th International Conference on Logic Programming for their help in organizing the ICLP 2013 DC. We especially acknowledge the Association for Logic Programming (ALP) for financial travel support enabling the participation of doctoral students in the ICLP 2013 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 2013 DC!

July 2013,

Marco Gavanelli and Martin Gebser

Contributors

Roberto Amadini	Evaluation and Application of Portfolio Approaches in Constraint Programming
Michael Bartholomew	The Role of Functions in the Stable Model Semantics
Sergio Castro	LogicObjects: A Portable and Extensible Approach for Linguistic Symbiosis between an Object-Oriented and a Logic Programming Language
Benoit Desouter	Implementing LP Systems with CP Techniques
Carmine Dodaro	Engineering an Efficient Native ASP Solver
Jorge Fandinno	Algebraic Approach to Causal Logic Programs
Johannes Klaus Fichte	Backdoors to the Tractability of Answer Set Programming
Amelia Harrison	The Semantics of Gringo and Proving Strong Equivalence
Arne König	Visualizing Answer Set Programming
Ari Saptawijaya	Towards Computational Morality with Logic Programming
Claudia Schulz	Argumentation for Answer Set Programming and other Non-monotonic Reasoning Systems
Laura Titolo	An Abstract Interpretation Framework for Verification of Timed Concurrent Constraint Languages
Fangkai Yang	Representing Actions in Logic-based Languages

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