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Practical Aspects of Declarative Languages

14th International Symposium, PADL 2012
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Proceedings

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Preface

This volume contains the proceedings of the 14th International Symposium on Practical Aspects of Declarative Languages (PADL 2012), held in Philadelphia, Pennsylvania, during January 23–24, 2012. PADL is an annual forum where researchers and practitioners present original work emphasizing new ideas and approaches pertaining to applications and implementation techniques of declarative languages. This year’s topics of interest included:

- Innovative applications of declarative languages
- Declarative domain-specific languages and applications
- Practical applications of theoretical results
- New language developments and their impact on applications
- Evaluation of implementation techniques on practical applications
- Novel implementation techniques relevant to applications
- Novel uses of declarative languages in the classroom
- Practical experiences

PADL solicited both full technical papers and shorter application papers. In both categories we initially received 52 abstracts, which materialized into 41 papers (38 technical papers and three application papers). Each submission was reviewed by at least three Program Committee members and each member was asked to referee at least one paper outside their usual area. In the end, the Program Committee decided to accept 19 technical papers.

The set of accepted papers present a variety of contributions ranging from implementation techniques, applied dependent types, (embedded) domain-specific languages, declarative modelling and hardware design, concurrent and parallel programming, constraint programming, attribute grammars, distributed policy languages and work on new language features and type systems. The conference program also included an invited paper, “Recent Advances in Declarative Networking,” presented by Boon Thau Loo (University of Pennsylvania), and an invited talk “Make Things Now! Pragmatic Functional Programming in Haskell” by Don Stewart (Standard Chartered Bank).

The PADL symposium was co-located with the ACM Symposium on Principles of Programming Languages (POPL 2012). We would like to thank the ACM, the POPL organizers, the Association for Logic Programming and Microsoft Research for their support, the developers of the EasyChair conference management system for easing the lives of the Program Committee chairs and the Springer staff responsible for producing the LNCS series. We would also like

to express our gratitude to all the authors who submitted papers, the participants for making the event a success, and the Program Committee members and external reviewers – the symposium would not have been possible without their dedicated and outstanding work. We are also indebted to Gopal Gupta for his guidance and practical help and Ricardo Rocha for access to past materials.

November 2011

Claudio Russo
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