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José F. Morales · Dominic Orchard (Eds.)

Practical Aspects of Declarative Languages

23rd International Symposium, PADL 2021
Copenhagen, Denmark, January 18–19, 2021
Proceedings

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Preface

This volume contains the papers presented at the 23rd International Symposium on Practical Aspects of Declarative Languages (PADL 2021). The symposium was co-located with the 48th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2021), and took place during January 18–19, 2021. The conference was planned to be held in Copenhagen, Denmark, but due to the COVID-19 pandemic it took place as a virtual online event.

PADL is a well-established forum for researchers and practitioners to present original work emphasizing novel applications and implementation techniques for all forms of declarative programming, including programming with sets, functions, logics, and constraints. The contributions to PADL 2021 were particularly focused on new ideas and approaches for principled implementation, fuzzing and declarative debugging, domain specific languages, and real-world applications ranging from blockchain to web programming.

Originally established as a workshop (PADL 1999 in San Antonio, Texas), the PADL series developed into a regular annual symposium; previous editions took place in San Antonio, Texas (1999), Boston, Massachusetts (2000), Las Vegas, Nevada (2001), Portland, Oregon (2002), New Orleans, Louisiana (2003), Dallas, Texas (2004), Long Beach, California (2005), Charleston, South Carolina (2006), Nice, France (2007), San Francisco, California (2008), Savannah, Georgia (2009), Madrid, Spain (2010), Austin, Texas (2012), Rome, Italy (2013), San Diego, California (2014), Portland, Oregon (2015), St. Petersburg, Florida (2016), Paris, France (2017), Los Angeles, California (2018), Lisbon, Portugal (2019), and New Orleans, Louisiana (2020).

This year, the Program Committee accepted 10 full papers and 1 short paper (extended abstract), selected from 21 submissions. Each submission was reviewed by at least three Program Committee members and went through a five-day online discussion period by the Program Committee before a final decision was made. The selection was based only on the merit of each submission and regardless of scheduling or space constraints.

We would like to express thanks to the Association of Logic Programming (ALP) and the Association for Computing Machinery (ACM) for their continuous support of the symposium, and Springer for their longstanding, successful cooperation with the PADL series. We are very grateful to the 18 members of the PADL 2021 Program Committee and external reviewers for their invaluable work. Many thanks to Marco Gavanelli, the ALP Conference Coordinator. We are happy to note that the conference was successfully managed with the help of EasyChair.

We note that this was an unusual year due to the COVID-19 pandemic. Many (if not most) members of our research community have been adversely affected, in a variety of ways. This has undoubtedly had an impact on the amount of scientific activity that

people have been able to engage in. We are therefore even more thankful to our reviewers for their time and care, and to all contributors to this year's PADL.

January 2021

José F. Morales
Dominic Orchard

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