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Implementation and Application of Functional Languages

23rd International Symposium, IFL 2011
Lawrence, KS, USA, October 3-5, 2011
Revised Selected Papers



Springer

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Preface

This volume contains the selected peer-reviewed revised articles that were presented at the 23rd International Symposium on Implementation and Application of Functional Languages (IFL 2011). IFL 2011 was held during October 3–5, 2011, at the University of Kansas, in Lawrence, USA. This was the second time the IFL symposium was held in the United States, the previous stateside IFL being in 2009. We intend to carry on this new tradition and make IFL a regular event held in the USA and in Europe by alternating the host continent every year and to foster collaborations, interactions, and friendships between researchers and practitioners on both continents and beyond.

The IFL symposia bring together researchers and practitioners that are actively engaged in the implementation and the use of functional and function-based programming languages. Every year IFL provides a venue for the presentation and discussion of new ideas and concepts, of work in progress, and of publication-ripe results. Participants are invited to submit either a draft paper or an extended abstract describing work to be presented at the symposium. These submissions are screened by the Program Committee Chair to make sure they are within the scope of IFL. The submissions accepted for presentation appear in the *draft* proceedings distributed at the symposium, which also appeared as an *Information and Telecommunication Technology Center* technical report. Submissions appearing in the draft proceedings are not peer-reviewed publications. After the symposium, authors are given the opportunity to consider the feedback received from discussions at the symposium and are invited to submit revised full articles to the formal review process. The revised submissions are reviewed by the Program Committee using prevailing academic standards and the best submissions are chosen to appear in the formal proceedings. This volume is the result of the work done by the IFL 2011 Program Committee and the contributing authors. There were 33 papers presented at IFL 2011, the Program Committee reviewed 26 revised submissions, and 11 papers were ultimately selected for this volume.

Bryan O’Sullivan, co-author of Real World Haskell and prolific open-source contributor, was the IFL 2011 guest speaker. Bryan delivered an interesting talk about his experiences as a software developer using Haskell, including a introduction to his latest package, **pronk**, an application for load-testing Web servers. Thank you Bryan for your contributions to IFL 2011.

Following the IFL tradition, IFL 2011 provided participants with an opportunity to get to know each other and to talk outside the formal setting of presentations with a social event on the second day of the symposium. This year, the participants got a walking tour of historic Lawrence, followed by a banquet in the Oread Hotel which, being one of the highest buildings in Lawrence, had panoramic views of the rolling hills of Northeast Kansas.

Carrying on a tradition started in 2003, the Program Committee selected a paper for the *Peter J. Landin Award*, given to the best article presented at the symposium. The recipients of the award for IFL 2011 were Anders Persson, Emil Axelsson, and Josef Svenningsson, from Chalmers University of Technology, for their contribution entitled “Generic Monadic Constructs for Embedded Languages.”

IFL 2011 was made possible by the generous support provided by the Information and Telecommunication Technology Center and the Department of Electrical Engineering and Computer Science, both from the University of Kansas. Finally, we are also grateful to Andrew Farmer, for much of the local organization logistics, including maintaining the website, and Beth Gill for organizing the IFL banquet. We thank the authors for submitting their articles and trusting that we would do our best to positively showcase their work.

We hope that the readers will enjoy this collection of selected papers from IFL 2011. Make sure to join us at a future version of IFL!

August 2012

Andy Gill
Jurriaan Hage

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