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Trends in Functional Programming

20th International Symposium, TFP 2019
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Revised Selected Papers

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Preface

This volume contains a selection of the papers presented at TFP 2019: the Symposium on Trends in Function Programming 2019, held June 12–14, 2019, in Vancouver, BC, Canada. TFP is an international forum for researchers with interests in all aspects of functional programming, taking a broad view of current and future trends in the area. It aspires to be a lively environment for presenting the latest research results and other contributions, described in draft papers submitted prior to the symposium. This edition of the symposium is the second to use a new format for selecting articles for publication. In the new format, authors can choose to have their submissions formally reviewed either before or after the symposium. Four full papers were submitted for formal review before the symposium, out of which two were accepted by the Program Committee for presentation and later publication. Each submission was reviewed by at least three reviewers. The Program Committee was asked to either accept or reject the paper as usual, but could also elect to reject a paper and invite it for presentation at TFP. For the remaining six submissions, the Program Committee checked that the drafts were within the scope of TFP and thus worthy of presentation at TFP, and provided a full review to an updated submission after the symposium.

The TFP 2019 program consisted of two keynotes, two other invited talks and seven presentations. The keynote talks were given by Nikhil Swamy (Microsoft Research, USA) on “Structuring the Verification of Imperative Programs with Functional Programming,” and Frank Wood (University of British Columbia, Canada) on “Probabilistic Programming.” Out of the seven presentations, two full papers were accepted for publication before the symposium as mentioned earlier, whereas a further six full papers were submitted to the formal post-refereeing process. The Program Committee selected four more papers for publication from these, which brings us to the total of six that are included in these proceedings.

We are grateful to everyone at University of British Columbia for their help in preparing and organizing TFP 2019, in particular Lara Hall and Holly Kwan. We also gratefully acknowledge the assistance of the TFP 2019 Program Committee and the TFP Steering Committee for their advice while organizing the symposium.

March 2020

William J. Bowman
Ronald Garcia

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