# 14th International Conference on Interactive Theorem Proving

**ITP 2023, July 31 to August 4, 2023, Białystok, Poland**

Edited by

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*Editors*

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## Short Papers

# Preface

The International Conference on Interactive Theorem Proving (ITP) is the main venue for the presentation of research into interactive theorem proving frameworks and their applications. It has evolved organically starting with a HOL workshop back in 1988, gradually widening to include other higher-order systems and interactive theorem provers generally, as well as their applications. This year's conference takes place in Białystok in Poland. It is hosted by the Mizar group of the University of Białystok. Previous ITP conferences took place in Edinburgh 2010, Nijmegen 2011, Princeton 2012, Rennes 2013, Vienna 2014, Nanjing 2015, Nancy 2016, Brasilia 2017, Oxford 2018, Portland 2019, Paris 2020, Rome 2021 and Haifa 2022; those in 2010, 2014, 2018 and 2022 were under the umbrella organization of the Federated Logic Conference (FLoC).

This year's conference attracted a total of 78 submissions (70 regular papers and 8 short papers). Each paper was systematically reviewed by at least three program committee members or appointed external reviewers, as a result of which the PC winnowed down the selection to be presented at the conference: 36 papers (33 regular papers and 3 short papers). We thank the authors of both accepted and rejected papers for their submissions, as well as the PC members and external reviewers for their invaluable work.

As well as all the regular papers, we are very pleased to have invited talks by Angeliki Koutsoukou-Argyraki (University of Cambridge) and Robbert Krebbers (Radboud University Nijmegen). The present volume collects all the accepted papers contributed to the conference as well as abstracts of the two invited talks. This is the fourth time that the ITP proceedings are published in the LIPIcs series. We thank all those at Dagstuhl for their responsive feedback on all matters associated with the production of the finished proceedings.

We are grateful to all of the local organizers and thankful to the ITP Steering Committee for their guidance throughout.

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