

Preface

The International Conference on Interactive Theorem Proving (ITP) is the premier venue for publishing research in the area of logical frameworks and interactive proof assistants, ranging from theoretical foundations, technology, and implementation aspects to their applications in areas such as verifying algorithms and programs, ensuring their safety and security, or formalizing significant mathematical theories. ITP grew out of the TPHOLs conferences and ACL2 workshops organized since the early 1990s.

Previous editions of ITP took place in Edinburgh, Nijmegen, Princeton, Rennes, Vienna, and Nanjing. The seventh edition (ITP 2016) was organized by the Inria research center Nancy – Grand Est in Nancy, France, during August 22–25, 2016. In all, 55 submissions were received for ITP 2016. Each submitted paper was reviewed by at least three members of the Program Committee or external reviewers, and the Program Committee decided to accept 27 regular contributions and five rough diamonds. Viktor Kuncak, Grant Olney Passmore, and Nikhil Swamy were invited to present keynote talks at the conference. The main conference was followed by workshops dedicated to the Coq and Isabelle systems, as well as to the Mathematical Components library.

The present volume collects the scientific contributions accepted for publication at ITP 2016. It also contains abstracts of the keynote presentations.

We are very grateful to the members of the ITP Steering Committee for their guidance and advice. Our colleagues in the Program Committee and the external reviewers did an excellent job in preparing timely and helpful reviews as a basis for selecting the accepted contributions. We extend our thanks to the authors of all submitted papers and the ITP community at large, without which the conference would not exist.

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