

Preface

This volume contains the papers presented at ITP 2015, the 6th International Conference on Interactive Theorem Proving held during August 24–27, 2015, in Nanjing, China.

ITP brings together researchers working in interactive theorem proving and related areas, ranging from theoretical foundations to implementation aspects and applications in program verification, security and formalisation of mathematics. The ITP conference series originated in the TPHOLs conferences and the ACL2 workshops, the former starting in 1991 and the latter in 1999. The first ITP conference was held in Edinburgh in 2010, and after that in Nijmegen, Princeton, Rennes and Vienna. This is the first time that ITP and its predecessor conferences have been hosted in Asia.

This year there were 54 submissions. Each submission was reviewed by at least three Programme Committee members. The committee decided to accept 30 papers, three of which are Rough Diamonds. The programme also includes invited talks and there were two three day tutorials on Isabelle/HOL and Coq. As is the tradition, half a day of ITP is dedicated to an excursion, which this year took the participants to Yangzhou and the Slender West Lake.

We are very grateful for the support received from the PLA University of Science and Technology. We also thank the local support team, especially Chunhan Wu and Jinshang Wang, for their help in staging ITP 2015. Finally we are very grateful to the Programme Committee for their hard work of reviewing and discussing the submissions.

We are also looking forward to the next ITP in 2016 that will be held in Nancy, France, organised by Jasmin Blanchette and Stephan Merz.

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