

CALL FOR PAPERS

6th International Conference on **Interactive Theorem Proving (ITP 2015)**

24 – 27 August 2015, Nanjing, China

<http://www.inf.kcl.ac.uk/staff/urbanc/itp-2015/>

Programme Committee:

Andrea Asperti, *University of Bologna*
Jesper Bengtson, *IT University of Copenhagen*
Stefan Berghofer, *Secunet Security Networks AG*
Yves Bertot, *INRIA*
Lars Birkedal, *Aarhus University*
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Randy Pollack, *Harvard University*
Carsten Schürmann, *IT University of Copenhagen*
Konrad Slind, *Rockwell Collins*
Alwen Tiu, *Nanyang Technological University*
Christian Urban (co-chair), *King's College London*
Dimitrios Vytiniotis, *Microsoft Research Cambridge*
Xingyuan Zhang (co-chair), *PLA University of Science and Technology*

Important Dates:

Title & abstract submission:	9 March 2015
Full paper submission:	13 March 2015
Author notification:	15 May 2015
Camera-ready papers due:	5 June 2015
Conference:	24 – 27 August 2015

Organizers:

Xingyuan Zhang
Chunhan Wu
Christian Urban

ITP is the premier international conference for researchers from all areas of interactive theorem proving and its applications. The sixth conference will be held on 24 through 27 August 2015 in Nanjing.

Topics

The programme committee welcomes submissions on all aspects of interactive theorem proving and its applications. The topics include, but are not limited to, the following:

- Specification and verification of hardware: microprocessors, memory systems, pipelines, etc; formal semantics of hardware design languages; synthesis; formal design flows.
- Specification and verification of software: program verification, refinement, and synthesis for functional, declarative and imperative languages; formal semantics of programming languages; proof carrying code.
- Industrial application of theorem provers.
- Formalization of mathematical theories.
- Advances in theorem prover technology: proof automation and decision procedures, induction, combination of deductive and algorithmic approaches, incorporation of theorem provers into larger systems, combination of theorem provers with other provers and tools.
- Other topics, including formal verification of security policies and configurations (formal analysis, verification of security algorithms, etc); specification and requirements analysis of systems; user interfaces for theorem provers; development and extension of higher order logics.
- Proof Pearls: concise and elegant presentations of interesting examples.

Submission is electronic. Papers should be no more than 16 pages in length and are to be submitted in PDF format. They must conform to the LNCS style preferably using LaTeX2e. The proceedings are to be published as a volume in the Lecture Notes in Computer Science series.

In addition to regular papers, described above, there will be a “rough diamond” section. Rough diamond submissions are limited to 6 pages and may consist of an extended abstract. They will be refereed: they will be expected to present innovative and promising ideas, possibly in an early form and without supporting evidence. Accepted diamonds will be published in the main proceedings, and will be presented as short talks.

Authors of all accepted papers are expected to present their paper at the conference.