

# CALL FOR PAPERS: TPHOLs 2004

The 17th International Conference on Theorem Proving in Higher Order Logics  
Park City, Utah

Tuesday 14 September - Friday 17 September 2004  
<http://www.cs.utah.edu/tphols2004/>

The 2004 International Conference on Theorem Proving in Higher Order Logics will be held in Park City, Utah, USA from Tuesday September 14 through Friday 17 September, 2004. This meeting is the seventeenth in a series that dates back to 1988.

## TOPICS

The program committee welcomes submissions on all aspects of theorem proving in higher order logics, on related topics in theorem proving and verification, and on relevant applications. The topics include, but are not limited to, the following:

- Specification and verification of hardware: microprocessors, memory systems, buses, 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.
- 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: security algorithms, properties, and policies; specification and requirements analysis of systems; user interfaces for theorem provers; development and extension of higher order logics; formalization of mathematical theories.
- *Proof Pearls*: concise and elegant presentations of interesting examples. Visit the conference web page for more information about this new category of papers.

## SUBMISSIONS

Submissions are invited in the following categories: *Mature Work* and *Emerging Trends*.

	Mature Work	Emerging Trends
Submission deadline	20 Feb 2004	21 May 2004
Acceptance notification	2 Apr 2004	18 June 2004
Camera-ready copy due	7 May 2004	16 July 2004

Submissions under *Mature Work* will be fully refereed, and the accepted papers will be published in a volume of Springer's Lecture Notes in Computer Science series, which will be available at the conference. Authors of accepted papers are expected to present their work at the conference.

Submissions under *Emerging Trends* will not be formally refereed, but their content and relevance will be reviewed. Those submissions accepted will be published in a University of Utah technical report, which will be available at the conference. Authors of accepted papers are expected to present a brief outline of their work at the conference and to prepare a poster for display at the conference venue. Unless otherwise requested, submissions rejected under *Mature Work* will also be considered for inclusion under *Emerging Trends*.

Papers should be no more than 16 pages in length and should be written using LaTeX2e and the LNCS style file, which is available from <http://www.springer.de/comp/lncs/authors.html>. Submissions should be sent electronically following the instructions on the TPHOLs web page, or emailed directly to the organizers using the email address [tphols2004@cs.utah.edu](mailto:tphols2004@cs.utah.edu). This email address can also be used for any inquiries concerning the conference.

## PROGRAM COMMITTEE

Mark Aagaard (Waterloo)	Clark Barrett (NYU)
David Basin (Zurich)	Yves Bertot (INRIA)
Ching-Tsun Chou (Intel)	Thierry Coquand (Chalmers)
Peter Dybjer (Chalmers)	Amy Felty (Ottawa)
Jean-Christophe Filliatre (Paris Sud)	Jacques Fleuriot (Edinburgh)
Mike Gordon (Cambridge)	Jim Grundy (Intel)
Elsa Gunter (NJIT)	John Harrison (Intel)
Jason Hickey (Caltech)	Peter Homeier (DoD, USA)
Doug Howe (Carleton)	Paul Jackson (Edinburgh)
Bart Jacobs (Nijmegen)	Sara Kalvala (Warwick)
Matt Kaufmann (AMD)	Thomas Kropf (Bosch)
Tom Melham (Oxford)	Cesar Munoz (NASA)
Tobias Nipkow (Muenchen)	Sam Owre (SRI)
Christine Paulin-Mohring (Paris Sud)	Lawrence Paulson (Cambridge)
Frank Pfenning (CMU)	Konrad Slind (Utah) (PC Chair)
Sofiene Tahar (Concordia)	Burkhardt Wolff (Freiburg)

## CONFERENCE ORGANIZATION

The conference organizers are

- Konrad Slind ([slind@cs.utah.edu](mailto:slind@cs.utah.edu))
- Ganesh Gopalakrishnan ([ganesh@cs.utah.edu](mailto:ganesh@cs.utah.edu))

of the School of Computing at the University of Utah.

## RELATED EVENTS

TPHOLS2004 finishes one day before ICFP begins. ICFP is the International Conference on Functional Programming, which will be held at Snowbird, Utah during September 19-22, 2004. For more details, please see <http://www.cs.indiana.edu/icfp04/cfp/cfp.html>.