

ACL2 Workshop 2007

A COMPUTATIONAL LOGIC



AUSTIN, TEXAS USA 07

ACL2

APPLICATIVE COMMON LISP

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LOCATION

Hosted by FMCAD
 November 16-17, 2007
 Renaissance Hotel
 Austin, TX USA

International Workshop on the ACL2 Theorem Prover and its Applications

Workshop Scope

ACL2 2007 is the major technical forum for users of the ACL2 theorem proving system and is the seventh in a series of workshops that occur approximately every 18 months. ACL2 is an industrial-strength automated reasoning system that is part of the Boyer-Moore family of theorem provers, for which its authors received the 2005 ACM Software System Award. ACL2 2007 is hosted by FMCAD. We invite papers on any topics related to ACL2, and we encourage submission of papers related to other theorem provers or formal methods that can be contributed to the ACL2 community. Suggested topics include but are not limited to the following:

- ★ software or hardware verification with the theorem prover,
- ★ formalizations of mathematics in ACL2,
- ★ new libraries, tools, and interfaces for ACL2,
- ★ experiences with ACL2 in the classroom,
- ★ reports of and proposals for improvements of ACL2,
- ★ comparisons with other theorem provers
- ★ comparisons with other programming or specification languages,
- ★ challenge problems and their solutions,
- ★ foundational issues related to ACL2, and
- ★ implementations connecting ACL2 with other systems.

Paper Submissions

Submissions must be made electronically in PDF format, as directed in the ACL2 2007 website. Submissions should be prepared in the ACM SIG Proceeding Templates, available from <http://www.acm.org/sigs/pubs/proceed/template.html>. We strongly prefer submissions in the "LaTeX2e - Strict Adherence to the SIGS Style".

The ACL2 Workshop accepts both long papers (up to ten pages) and short papers (up to four pages). Both categories of papers will be fully refereed. At least one author of each accepted papers must register for the workshop and give a presentation summarizing the paper's results. Authors of long papers will have more time to present their work at the workshop; this is the primary distinction between long and short papers. One of the main advantages of the ACL2 Workshop is that attendees are already knowledgeable about ACL2, its syntax, its basic commands, and the art of writing models in it. So authors may assume that readers have this familiarity. We expect to provide workshop proceedings and to include these proceedings in the ACM digital library.

Many papers presented at the workshop will describe interactions with the theorem prover. We strongly encourage authors of such papers to provide ACL2 script files (aka "books") along with instructions for using these books in ACL2. Such supporting materials should follow the guidelines at <http://www.cs.utexas.edu/users/moore/acl2/books/index.html>. For accepted papers, these books will be mirrored on the ACL2 home page and included in future ACL2 distributions.

Important Dates

Abstracts:	July 2, 2007
Submission:	July 9, 2007
Acceptance:	September 3, 2007
Final Copies:	October 15, 2007
Workshop:	November 15-16, 2007