CALL FOR PAPERS
COMPUTER AIDED VERIFICATION
17th International Conference
July 6 – 10, 2005, University of Edinburgh, Scotland, UK
http://www.cav2005.inf.ed.ac.uk

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Aims and Scope. CAV'05 conference is the 17th in a series dedicated to the advance-
manship of the theory and practice of computer-aided formal analysis methods
for software and hardware systems. The conference covers the spectrum from theoretical
results to concrete applications, with an emphasis on practical verification tools and the
algorithms and techniques that are needed for their implementation. The proceedings
of the conference will be published in the Springer-Verlag Lecture Notes in Computer
Science series. Sample topics of interest include:

- Algorithms and tools for verifying models and implementations
- Deductive, compositional, and abstraction techniques for verification
- Modeling and specification formalisms
- Program analysis and software verification
- Testing and runtime analysis based on verification technology
- Applications and case studies
- Verification in industrial practice

Invited Speakers:
Bob Bentley (Intel), “Validating a modern microprocessor.”
George Necula (Berkeley), “Randomized algorithms for program analysis & verification.”

Tutorials:
Tutorial on “Automated abstraction refinement”,
by Thomas Ball (Microsoft Research) and Ken McMillan (Cadence).
Tutorial on “Theory & practice of decision procedures for combinations of theories”,
by Clark Barrett (NYU) and Cesare Tinelli (U. Iowa).

Satellite Events (July 11-12th):
FATES'2005: 5th Workshop on Formal Approaches to Testing Software.
GDV'2005: 2nd Workshop on Games in Design and Verification.
RV'2005: 5th Workshop on Runtime verification.
SoftMC'2005: 3rd Workshop on Software Model Checking.

“Satisfiability Modulo Theories competition”: a special tools competition.

Paper submission. There are two categories of submissions:

A. Regular papers. Submissions (in PS or PDF) should not exceeding 13 pages using
Springer’s LNCS format (http://www.springer.de/comp/lncs/authors.html)
with STANDARD margins. An additional clearly marked appendix may be
included with the submission, to be read at the discretion of the program commit-
tee. Submissions deviating from these guidelines risk summary rejection.
Submissions should contain original research, and sufficient detail to assess the
merits of the contribution. For papers reporting experimental results, authors
are strongly encouraged to make their data available with their submission. Sim-
multaneous submission to other conferences with proceedings or submission of
material that has already been published elsewhere is strictly forbidden.

B. Tool presentations. Submissions, not exceeding four (4) pages using Springer's
LNCS format with standard margins, should describe the implemented tool and
its novel features. If necessary, an additional clearly marked appendix may be
included with the submission, but will only be read at the discretion of the pro-
gram committee. A demonstration is expected to accompany a tool presentation.
Papers describing tools that have already been presented in this conference be-
fore will be accepted only if significant and clear enhancements to the tool are
reported and implemented.

The only mechanism for paper submissions is via the electronic submission web site,
accessible via the conference homepage.

Important dates.
Paper submission (Extended & ABSOLUTELY FIRM): January 28, 2005
Notification of acceptance/rejection: March 24, 2005
Final version due: April 29, 2005