SAT 2006

Call for Papers

9th International Conference on Theory and Applications of Satisfiability Testing

August 12 - 15, Seattle, Washington, USA

http://fmv.jku.at/sat06

Program Chairs

Armin Biere, *Johannes Kepler Universität*, Austria
Carla Gomes, *Cornell University*, USA

Important Dates

March 10, *Abstract Submission*
March 17, *Paper Submission*
April 28, *Author Notification*
May 19, *Final Version*

Program Comittee

Dimitris Achlioptas, *UC Santa Cruz*, USA
Carlos Ansotegui, *IIIA*, Spain
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Enrico Giunchiglia, *Univ. di Genova*, Italy
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Henry Kautz, *University of Washington*, USA
Hans Kleine Büning, *Univ. Paderborn*, Germany
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Daniel Le Berre, *Univ. d'Artois*, France
Inês Lynce, *Univ. Técnica de Lisboa*, Portugal
Hans van Maaren, *Univ. Delft*, Netherlands
Sharad Malik, *Princeton University*, USA
João Marques-Silva, *Univ. of Southampton*, UK
Cristopher Moore, *Univ. of New Mexico/SFI*, USA
Jussi Rintanen, *National ICT*, Australia
Ashish Sabharwal, *Cornell University*, USA
Bart Selman, *Cornell University*, USA
Carsten Sinz, *Johannes Kepler Universität*, Austria
Ewald Speckenmeyer, *Universität Köln*, Germany
Ofer Strichman, *Technion*, Israel
Stefan Szeider, *Durham University*, UK
Allen Van Gelder, *UC Santa Cruz*, USA
Miroslav Velev, *Consultant*, USA
Toby Walsh, *National ICT*, Australia
Lintao Zhang, *Microsoft Research*, USA
Riccardo Zecchina, *ICTP*, Italy

SAT Race

Carsten Sinz, *Johannes Kepler Universität*, Austria
Nina Amla, *Cadence Design Systems*, USA
João Marques-Silva, *Univ. of Southampton*, UK
Emmanuel Zarpas, *IBM Haifa*, Israel
Daniel Le Berre, *Université d'Artois*, France
Laurent Simon, *Université Paris-Sud*, France

The International Conference on Theory and Applications of Satisfiability Testing is the primary annual meeting for researchers studying the propositional satisfiability problem (SAT). SAT'06 is part of FLOC'06, the fourth Federated Logic Conference, which will host, in addition to SAT, LICS, RTA, CAV, ICLP and IJCAR. SAT'05 was held in St Andrews, Scotland, and SAT'04 in Vancouver, BC, Canada. This time SAT'06 features the SAT'06 Race in spirit of the SAT Competitions, the first competitive QBF'06 Evaluation, an Evaluation of Pseudo-Boolean Solvers and the Workshop on Satisfiability Solvers and Program Verification (SSPV'06).

Many hard combinatorial problems can be encoded into SAT. Therefore improvements on heuristics on the practical side as well as theoretical insight into SAT apply to a large range of real-world problems. More specifically, many important practical verification problems can be rephrased as SAT problems. This applies to verification problems in hardware and software. Thus SAT is becoming one of the most important core technologies to verify secure and dependable systems. The topics of the conference span practical and theoretical research on SAT and its applications and include but are not limited to *proof systems*, *proof complexity*, *search algorithms*, *heuristics*, *analysis of algorithms*, *hard instances*, *randomized formulae*, *problem encodings*, *industrial applications*, *solvers*, *simplifiers*, *tools*, *case studies* and *empirical results*. SAT is interpreted in a rather broad sense: besides propositional satisfiability, it includes the domain of quantified boolean formulae (QBF), constraints programming techniques (CSP) for word-level problems and their propositional encoding and particularly satisfiability modulo theories (SMT).

Submissions should contain original material and can either be regular research papers up to 14 pages or short papers up to 6 pages. Double submissions including submissions as short and long papers will be rejected. Submissions should use the Springer LNCS style. All appendices, tables, figures and the bibliography must fit into the page limit. Submissions deviating from these requirements may be rejected without review. All accepted papers including short papers will be published in the proceedings of the conference. We are currently negotiating with Springer to publish the proceedings within the LNCS series. The submission page is http://www.easychair.org/SAT06. Papers and abstracts have to be submitted electronically as PDF files. Abstracts for intended submissions should be submitted by March 10. Full papers are due on March 17.

QBF Evaluation

Massimo Narizzano,
Luca Pulina,
Armando Tacchella,
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Pseudo-Boolean Evaluation

Olivier Roussel,
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Vasco Manquinho,
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