

# SAT 2009

## Call for Papers

### 12th International Conference on Theory and Applications of Satisfiability Testing

June 30 - July 3, 2009, Swansea, Wales, United Kingdom

<http://www.cs.swan.ac.uk/~csoliver/SAT2009>

#### Conference Chair

Oliver Kullmann, Swansea University, Swansea, UK

#### Invited Speakers

Robert Nieuwenhuis, Tech. Univ. Catalonia, Spain  
Moshe Vardi, Rice University, U.S.A.

#### Important Dates

February 20, *Abstract Submission*  
February 27, *Paper Submission*  
March 22, *Author Notification*  
March 29, *Final Version*

#### Technical Program Committee

Dimitris Achlioptas, UC Santa Cruz, USA  
Armin Biere, Johannes Kepler University, Austria  
Stephen A. Cook, University of Toronto, Canada  
Nadia Creignou, Universite de la Mediterranee, France  
Evgeny Dantsin, Roosevelt University, Chicago  
Adnan Darwiche, UCLA, USA  
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Edward Hirsch, Steklov Institute of Mathematics, Russia  
Kazuo Iwama, Kyoto University, Japan  
Daniel LeBerre, Universite d'Artois, France  
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Joao Marques-Silva, University of Southampton, UK  
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Hans Kleine Buening, University of Paderborn, Germany  
Albert Oliveras, Technical University of Catalonia, Spain  
Ramamohan Paturi, University of California, USA  
Lakhdar Sais, Universite d'Artois, France  
Karem A. Sakallah, University of Michigan, USA  
Uwe Schoening, Universitat Ulm, Germany  
Roberto Sebastiani, Universita di Trento, Italy  
Robert H. Sloan, University of Illinois, USA  
Niklas Sorensson, Chalmers University of Tech, Sweden  
Ewald Speckenmeyer, Universitat Koln, Germany  
Stefan Szeider, Durham University, UK  
Armando Tacchella, Universita di Genova, UK  
Allen Van Gelder, UC Santa Cruz, USA  
Hans van Maaren, Delft University of Tech, Netherlands  
Toby Walsh, University of New South Wales, Australia  
Sean Weaver, University of Cincinnati, USA  
Emo Welzl, ETH Zurich, Switzerland  
Lintao Zhang, Microsoft Research, USA  
Xishun Zhao, Sun Yat-Sen University, P.R. China

The International Conference on Theory and Applications of Satisfiability Testing (SAT) is the primary annual meeting for researchers studying the propositional satisfiability problem. SAT 2009 is the twelfth SAT conference. SAT 2009 features the SAT competition, the Pseudo-Boolean evaluation, and the MAX-SAT evaluation.

Many hard combinatorial problems can be encoded into SAT. Therefore improvements on heuristics on the practical side, as well as theoretical insights 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, randomised 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. The conference proceedings will be published within the Springer LNCS series. The paper submission page is <http://www.easychair.org/conferences/?conf=sat2009>. Papers have to be submitted electronically as PDF files. Abstract submissions are due February 20, paper submissions February 27.

#### SAT Competition

[www.satcompetition.org/2009](http://www.satcompetition.org/2009)

Daniel Le Berre

Laurent Simon

Andreas Goerdt

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#### PB Evaluation

<http://www.cril.univ-artois.fr/PB09>

Vasco Manquinho

Olivier Roussel

#### MAX-SAT Evaluation

[www.maxsat.udl.cat/09/](http://www.maxsat.udl.cat/09/)

Josep Argelich

Chu-Min Li

Felip Manyà

Jordi Planes