

# 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

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Evgeny Dantsin, Roosevelt University, Chicago

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Edward Hirsch, Steklov Institute of Mathematics, Russia

Kazuo Iwama, Kyoto University, Japan

Daniel Le Berre, Université d'Artois, France

Chumin Li, Université de Picardie, France

Ines Lynce, Instituto Superior Técnico, Portugal

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David G. Mitchell, Simon Fraser University, Canada

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Ramamohan Paturi, University of California, USA

Lakhdar Sais, Université d'Artois, France

Karem A. Sakallah, University of Michigan, USA

Uwe Schoening, Universität Ulm, Germany

Roberto Sebastiani, Università di Trento, Italy

Carsten Sinz, University of Karlsruhe, Germany

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Niklas Sörensson, Chalmers University of Tech, Sweden

Ewald Speckenmeyer, Universität Köln, Germany

Stefan Szeider, Durham University, UK

Armando Tacchella, Università di Genova, UK

Alasdair Urquhart, University of Toronto, Canada

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

Olivier Roussel

Laurent Simon

#### MAX-SAT Evaluation

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

Josep Argelich

Chu-Min Li

Felip Manyà

Jordi Planes

#### PB Evaluation

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

Vasco Manquinho

Olivier Roussel