

SAT 2007

Call for Papers

10th International Conference on Theory and Applications of Satisfiability Testing

May 28 - 31, Lisbon, Portugal

<http://sat07.ecs.soton.ac.uk>

Conference Chairs

Joao Marques-Silva, University of Southampton, UK
Karem Sakallah, University of Michigan, USA

Local Chair

Ines Lynce, Tech. Univ. Lisbon, Portugal

Invited Speakers

Martin Davis, New York University, USA
Andrei Voronkov, University of Manchester, UK

Important Dates

January 19, *Paper Submission*
March 2, *Author Notification*
March 16, *Final Version*

Technical Program Committee

Fahiem Bacchus, University of Toronto, Canada
Paul Beame, University of Washington, USA
Armin Biere, Johannes Kepler Univ., Austria
Adnan Darwiche, UCLA, USA
Leonardo de Moura, Microsoft Research, USA
Niklas Een, Cadence Design Systems, USA
John Franco, University of Cincinnati, USA
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Joonyoung Kim, Intel Corp., USA
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James Kukula, Synopsys ATG, USA
Oliver Kullmann, University of Wales Swansea, UK
Daniel Le Berre, Université d'Artois, France
Chu-Min Li, Université de Picardie, France
Ines Lynce, Tech. Univ. Lisbon, Portugal
Panagiotis Manolios, Georgia Inst. Technology, USA
Vasco Manquinho, Tech. Univ. Lisbon, Portugal
Slawomir Pilarski, Magma DA, USA
Steve Prestwich, University College Cork, Ireland
Roberto Sebastiani, Univ. Trento, Italy
Hossein Sheini, CMU, USA
Laurent Simon, Université Paris Sud, France
Ewald Speckenmeyer, Universität Köln, Germany
Ofer Strichman, Technion, Israel
Stefan Szeider, Durham University, UK
Armando Tacchella, Univ. di Genova, Italy
Allen Van Gelder, UC Santa Cruz, USA
Hans van Maaren, Tech. Univ. Delft, Netherlands
Toby Walsh, National ICT, Australia
Lintao Zhang, Microsoft Research, USA

The International Conference on Theory and Applications of Satisfiability Testing (SAT) is the primary annual meeting for researchers studying the propositional satisfiability problem. SAT 2007 is the tenth SAT conference. SAT 2007 features the SAT competition, the QBF 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, 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. The conference proceedings will be published within the Springer LNCS series. The paper submission page is <http://www.easychair.org/SAT2007>. Papers have to be submitted electronically as PDF files. Paper submissions are due by January 19.

SAT Competition

www.satcompetition.org/2007

Daniel Le Berre
Laurent Simon

Ewald Speckenmeyer
Geoff Sutcliffe
Lintao Zhang

PB Evaluation

www.cril.univ-artois.fr/PB07

Vasco Manquinho
Olivier Roussel

MAX-SAT Evaluation

www.maxsat07.udl.es

Josep Argelich
Chu-Min Li
Felip Manyà
Jordi Planes

QBF Competition

www.qbflib.org/qbfeval

Massimo Narizzano
Luca Pulina
Armando Tacchella