

CADE-24: CALL FOR PAPERS
24th International Conference on Automated Deduction
June 9-14, 2013, Lake Placid, New York, USA

<http://www.cade-24.info/>
Submission: January 14, 2013

CADE is the major forum for the presentation of research in all aspects of automated deduction. The conference program features invited talks, paper presentations, system descriptions, workshops, tutorials, and system competitions, including the CADE ATP System Competition (CASC). CADE-24 invites high-quality submissions on the general topic of automated reasoning, including foundations, applications, implementations and practical experiences.

- Logics of interest include: propositional, first-order, equational, classical, higher-order, non-classical, constructive, modal, temporal, many-valued, description, meta-logics, logical frameworks, type theory, set theory, as well as any combination thereof.
- Paradigms of interest include: theorem proving, model building, constraint solving, computer algebra, model checking, proof checking, and their integrations.
- Methods of interest include: resolution, superposition or paramodulation, completion, saturation, term rewriting, decision procedures and their combinations, model elimination, connection method, inverse method, tableaux, induction, proof planning, sequent calculi, natural deduction, as well as their supporting algorithms and data structures, including unification, matching, orderings, indexing, proof presentation and explanation, and search plans or strategies for inference control, including semantic guidance and AI-related methods.
- Applications of interest include: analysis, verification and synthesis of software and hardware, formal methods, computer mathematics, computational logic, declarative programming, knowledge representation, deductive databases, natural language processing, computational linguistics, ontology reasoning, robotics, planning, and other areas of artificial intelligence.

Detailed information on satellite events will be published in separate calls and on the conference website.

PUBLICATION AND SUBMISSION: The proceedings of the conference will be published in the *Springer LNAI/LNCS series*. Submissions can be made in the categories *regular paper* (max 15 pages) and *system description* (max 7 pages). Full system descriptions that provide in-depth presentation of original ideas in an implemented system can be submitted as regular papers. There is an expectation that proofs of theoretical results that do not fit in the page limit, executables of systems, and input data of experiments be available, via a reference to a website, or in an appendix of the paper. Reviewers will be encouraged to consider these additional materials, however it will be at their discretion to do it. All papers will be evaluated according to the highest standards in terms of originality, significance, technical quality, and readability. Submissions must be in English and standard conforming pdf format. Submissions must be unpublished and not submitted for publication elsewhere. Authors are strongly encouraged to produce their papers in LaTeX. Formatting instructions and the LNCS style files can be obtained via <http://www.springer.de/comp/lncs/authors.html>. The page for electronic submission via EasyChair is <https://www.easychair.org/conferences/?conf=cade24>.

IMPORTANT DATES (All in 2013): Title and abstract must be submitted before the paper.

Abstract submission: January 7; **Paper submission:** January 14; **Notification:** March 11; **Final version:** April 1; **Workshops and Tutorials:** June 9-10; **Competitions:** June 9-14; **Conference:** June 11-14.

ORGANIZERS: **Conference Co-Chairs:** Christopher A. Lynch and Neil V. Murray; **Program Committee Chair:** Maria Paola Bonacina; **Workshop and Competition Chair:** Christoph Benzmüller; **Tutorial Chair:** Peter Baumgartner; **Publicity and Web Chair:** Grant Olney Passmore.

PROGRAM COMMITTEE: Alessandro Armando, Peter Baumgartner, Christoph Benzmüller, Maria Paola Bonacina (Chair), Cristina Borralleras, Thierry Boy De La Tour, Évelyne Contejean, Leonardo de Moura, Stephanie Delaune, Clare Dixon, Pascal Fontaine, Ulrich Furbach, Ruben Gamboa, Jürgen Giesl, Paul B. Jackson, Predrag Janičić, Hélène Kirchner, Konstantin Korovin, K. Rustan M. Leino, Christopher A. Lynch, César Muñoz, Neil V. Murray, Lawrence C. Paulson, Frank Pfenning, Brigitte Pientka, David A. Plaisted, Christophe Ringeissen, Ulrike Sattler, Renate A. Schmidt, Manfred Schmidt-Schauß, Stephan Schulz, Viorica Sofronie-Stokkermans, Ashish Tiwari, Uwe Waldmann, Christoph Weidenbach, Jian Zhang.