

ISSAC 2010



International Symposium on Symbolic and Algebraic Computation

Technische Universität München

Munich, Germany, 25-28 July 2010

<http://www.issac-conference.org/2010>

The International Symposium on Symbolic and Algebraic Computation is the premier conference for research in symbolic computation and computer algebra. ISSAC 2010 is the 35th meeting in the series. The conference traditionally presents a range of invited speakers, tutorials, poster sessions and vendor exhibits with a centre-piece of contributed research papers. ISSAC 2010 will be hosted by the Technische Universität München.

ISSAC 2010 invites the submission of original research contributions to be considered for publication and presentation at the conference. All areas of computer algebra and symbolic mathematical computation are of interest. These include, but are not limited to:

Algorithmic aspects: Exact and symbolic linear, polynomial and differential algebra. Symbolic-numeric, homotopy, perturbation and series methods. Computational geometry, group theory and number theory. Summation, recurrence equations, integration, solution of ODE & PDE. Symbolic methods in other areas of pure and applied mathematics. Theoretical and practical aspects, including general algorithms, techniques for important special cases, complexity analyses of algebraic algorithms and algebraic complexity.

Software aspects: Design of packages and systems. Data representation. Software analysis. Considerations for modern hardware, *e.g.*, current memory and storage technologies, high performance systems and mobile devices. User interface issues, including collaborative computing and new methods for input and manipulation. Interfaces and use with systems for, *e.g.*, document processing, digital libraries, courseware, simulation and optimization, automated theorem proving, computer aided design and automatic differentiation.

Application aspects: Applications that stretch the current limits of computer algebra algorithms or systems, use computer algebra in new areas or new ways or apply it in situations with broad impact.

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SUBMISSION INSTRUCTIONS

Papers must present original research and not duplicate work published or submitted for consideration elsewhere. Papers must be in English and should not exceed 8 pages in the ACM `sig-alternate.cls` style, found at <http://www.acm.org/sigs/publications/proceedings-templates>. Abstracts should be submitted by the abstract submission date. Authors may choose to submit the full paper with the abstract, or later, up to the full paper deadline. Submission is via EasyChair, at the web site <http://www.easychair.org/conferences/?conf=issac2010>. Papers will be reviewed by the Program Committee and external referees. Authors will have an opportunity to respond to reviews before the acceptance decisions are made. At least one author of each accepted paper must register for the conference and present the paper.

IMPORTANT DATES

Abstract submission:	Thursday 14 January 2010
Full paper deadline:	Thursday 21 January 2010
Reviews available:	Thursday 25 March 2010
Author response period:	29-31 March 2010
Acceptance notification:	Thursday 8 April 2010
Camera ready copy due:	Thursday 6 May 2010