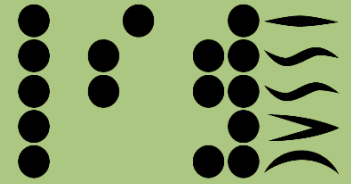


# ISSAC 2007

[www.cs.uwaterloo.ca/issac2007](http://www.cs.uwaterloo.ca/issac2007)



**Call for Participation, Posters and Software Exhibitions**  
**July 29 –August 1, 2007**  
**University of Waterloo**  
**Waterloo, Ontario, Canada**

The International Symposium on Symbolic and Algebraic Computation (ISSAC) is the premier annual conference to present and discuss new developments and original research results in all areas of symbolic mathematical computation. Planned activities include invited presentations, research papers, poster sessions, tutorial courses, vendor exhibits and software demonstrations.

## Invited Speakers

- John Cannon (University of Sydney, Australia)
- William Kahan (UC Berkeley, USA)
- Jean Bernard Lasserre (Toulouse, France)

## Tutorials

ISSAC 2007 will continue the tradition of offering tutorials by leading researchers on important current research topics.

- David Cox (Amherst College, USA)
- Fritz Schwarz (FhG, Sankt Augustin, Germany)
- Gilles Villard (ENS Lyon, France)

## Conference Topics include

### Algorithmic Mathematics

Algebraic, symbolic and symbolic-numeric algorithms. Simplification, function manipulation, summation, integration, polynomial/differential/difference equations, linear algebra, number theory, group and invariant theory, geometric computing.

### Computer Science

Theoretical and practical problems in symbolic computation. Systems, problem solving environments, user interfaces, software, libraries, parallel/distributed computing and programming languages, concrete analysis, benchmarking, theoretical and practical complexity, automatic differentiation, code generation, mathematical data structures and exchange protocols.

### Applications

Problem treatments using algebraic, symbolic or symbolic-numeric computation in an essential or a novel way. Engineering, economics and finance, physical and biological sciences, computer science, logic, mathematics and education.

## Poster Sessions

Posters on all conference topics are welcome. Authors are invited to submit an extended abstract of no more than 2 pages (A4 or letter) describing the contents of the poster. PDF and PS formats are preferred. A0 format is preferable but not mandatory. Abstracts of posters will be distributed at the symposium.

Submission of posters can be done online at <http://www.easychair.org/ISSAC2007Posters/>

## Software Demonstrations

ISSAC 2007 organizes sessions to exhibit software packages produced by academic developers. These sessions are intended to promote software development activities in the areas of symbolic mathematical computation. A software exhibition session consists of an illustration of a piece of software by using a poster display and/or a laptop computer display.

Authors are invited to submit an extended abstract of no more than 2 pages (A4 or letter) of their software presentation. Abstracts of software exhibitions will be distributed at the symposium. PDF and PS formats are preferred. The abstract must include a valid link/contact address for downloading the software packages and the documentations.

Please send your submission by email with the subject [ISSAC'07 Software Exhibitions] to [issac07demos@uwaterloo.ca](mailto:issac07demos@uwaterloo.ca).

## Deadlines and Notification for Posters Sessions and Software Exhibitions

- Submission deadline: June 5, 2007 (Midnight [24:00 EST])
- Notification of acceptance will be made by June 15, 2007.

## SIGSAM Distinguished Paper Award

This award will be given to the most distinguished paper(s) presented at ISSAC 2007. The distinguished paper(s) will be selected by the program committee.

## SIGSAM Distinguished Student Author Award

This award will be given to the best student author(s). An author who is a full-time student at the time of submission is eligible for the award. This status should be indicated when the paper is submitted.

For details concerning the selection procedure for this award as well as the procedure for the ISSAC Distinguished Paper Award, see the ISSAC Award Guidelines [http://www.acm.org/sigsam/ISSAC\\_Awards/](http://www.acm.org/sigsam/ISSAC_Awards/)

## ISSAC 2007 Organizing Committee

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G. Labahn, A. Storjohann

Poster Committee Chair: V. Gerdt

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(complete committee listings on the website)

## Our Sponsors

ISSAC 2007 acknowledges the gracious support of our sponsors: The University of Waterloo, The Association for Computing Machinery, The Fields Institute, Maplesoft, MITACS, and the Ontario Research Centre for Computer Algebra.

