



SIGSAM Program Review 2012

Jeremy Johnson, SIGSAM Chair

jjohnson@cs.drexel.edu

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What is SIGSAM?

ACM Special Interest Group on Symbolic and Algebraic Manipulation

- Since 1967 SIGSAM has been the largest international organization representing, promoting and supporting the computer algebra and symbolic computation scientific communities.
- Our scope encompasses the design, analysis and implementation of algorithms and systems for symbolic and algebraic computation and their application to problems of science and broader society.

SIGSAM activities

- Publishes the ACM Communications in Computer Algebra since 1965
- Sponsors conferences (such as ISSAC)
- Sponsors, funds, and nominates for awards
- Informs members on computer algebra activities and events
- Website (77,517 visits), mailing lists (10 with 5,673 subscribers)

People

- Executive committee (5), Editorial Board (9), Information Director

Conferences

ISSAC: The International Symposium on Symbolic and Algebraic Computation is the premier annual computer algebra conferences (since 1988)

- ISSAC 2013, Boston, MA (full sponsorship)
- ISSAC 2012, Grenoble France (in cooperation with ACM)
- ISSAC 2011, San Jose CA (co-located with FCRC 2011) (full sponsorship)
- ISSAC 2010, Munich, Germany (in cooperation with ACM)

ISSAC is managed by a Steering Committee of six members (3 institutional, including SIGSAM + 3 elected at large). Discounted registration for members.

Other conferences with SIGSAM involvement

- SNC, ECCAD, PASCO, PLMMS

ACM Communications in Computer Algebra

The ACM Communications on Computer Algebra (CCA) has been published since 1965 (under different names)

CCA includes reviewed technical articles, calls for papers, surveys, announcements, Ph.D. Abstracts, job postings, etc.

- Four issues distributed electronically with two double issues printed and mailed to members

SIGSAM also holds a seat on the TOMS editorial board

DL

- 2,736 articles, 7,716 citings, 400,780 downloads

Awards

Richard D. Jenks Memorial Prize for Excellence in Software Engineering applied to Computer Algebra

- Awarded every two years (at ISSAC), selected by committee appointed by SIGSAM after a call for formal nominations and letters of support
- From an endowment of \$29,454 (June 2012)
- 2011 winner was the Maple Project at the University of Waterloo

ISSAC Prizes

- Distinguished paper award and student author award
- From an endowment of \$53,648 (June 2012)

Nominations

- SIGSAM successfully nominated Erich Kaltofen for ACM Fellow

Financial Status

SIG Fund balance:

- June 2012: \$60,333
- June 2011: \$50,882
- June 2010: \$50,785
- June 2009: \$47,827

Prize Endowment:

- ISSAC paper awards: \$53,648
- Jenks Prize: \$29,454

Conference revenue:

- ISSAC 2011 (\$24)
- ISSAC 2009 \$615

Membership:

- 233, 244, 341, 259 (2012-2009)
- 27 countries

Goals and Challenges

- Add value to membership
- Increase membership
- Further Support & Promote CA Community
- Support Poster/Software Prizes
- Support students
 - ACM Doctoral Thesis Award
 - ACM Student Research Competition
 - Student Travel Awards
- CCA Material
 - Application, Education Column
 - Research Highlights