SIGSAM Report

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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 and ECCAD)
- Sponsors, funds, and nominates for awards
- Informs members on computer algebra activities and events
- Website (80K+ visits), mailing lists (5K+ 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 2017, Waterloo, Canada
- – ISSAC 2016, Waterloo, Canada (full sponsorship)
- – ISSAC 2015, Bath, United Kingdom
- – ISSAC 2014, Kobe, Japan (in cooperation with ACM)
- – 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

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

CCA is published regularly and on-time due to the tireless efforts of past Editors Manuel Kauers & Eugene Zima and current Editor **Wen-shin Lee (Belgium)**

CCA contents are archived in the DL (Digital Library)

ACM SGB meetings

- SGB (= SIG Governing Board)
- I attended two SGB meetings last year, in New York and Chicago.
- SIGSAM representation in SGB meetings is important as it allows us to interact with other SIG Officers, exchange ideas, learn of new developments within the ACM etc.
- See the CCA "Message from the Chair section"

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

ISSAC Prizes

– Distinguished paper award and student author award

Nominations

– SIGSAM presented a nomination for the
    ACM-W Athena Lecturer Award.

the nomination received very encouraging feedback and will stay in the pool for next year.

SIGSAM is financially robust, see report by **Agnes Szanto**

SIGSAM Goals and Challenges

- Add value to membership
- Increase membership (8 new members since July 2013)
- Further Support & Promote the Symbolic Computation Community
- Support Poster/Software Prizes
- Support students
  - ACM Doctoral Dissertation Award
  - ACM Student Research Competition
  - Student Travel Awards
- Improve CCA
- Many volunteering opportunities available, contact us!