International Symposium on Symbolic and Algebraic Computation (ISSAC 2014)

23–25 July 2014, Kobe, Japan (21–22 July workshops and tutorials)

http://www.issac-conference.org/2014/

a satellite conference of the International Congress of Mathematicians (ICM 2014)

Important dates:

Abstract (of a full paper) submission: Jan. 12, 2014, 23:59 EST
Full paper submission: Jan. 19, 2014, 23:59 EST (no extension)
Poster (abstract): Apr. 20, 2014, 23:59 EST
Software presentation (abstract): Apr. 20, 2014, 23:59 EST

Plenary speakers:

Noriko Arai (NII, Japan)   David Stoutemyer (U. of Hawaii, USA)   Bernd Sturmfels (U.C. Berkeley, USA)

General co-chairs: Kosaku Nagasaka and Franz Winkler
Program committee chair: Agnes Szanto
Proceedings editor: Katsusuke Nabeshima
Local arrangement chair: Kosaku Nagasaka
Publicity chair: Ekaterina Shemyakova
Treasurer: Akira Terui

Poster chair: Wen-shin Lee
Software exhibits chair: Daniel Lichtblau
Tutorials chair: Tetsu Yamaguchi
Workshop chair: Takuya Kitamoto
Webmaster: Masaru Sanuki

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 algebraic geometry, group theory and number theory
Computer arithmetic
Summation, recurrence equations, integration, solution of ODEs & PDEs
Symbolic methods in other areas of pure and applied mathematics
Complexity of algebraic algorithms and algebraic complexity

Software aspects:

Design of symbolic computation packages and systems
Language design and type systems for symbolic computation
Data representation
Considerations for modern hardware
Algorithm implementation and performance tuning
Mathematical user interfaces

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.