

The 44th International Symposium on Symbolic and Algebraic Computation

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Conference topics

All areas of computer algebra and symbolic computation including, but are not limited to:

Algorithmic aspects:

Exact and symbolic linear, polynomial and differential algebra
Symbolic-numeric, homotopy, perturbation & series methods
Computational algebraic geometry, group theory and number theory, quantifier elimination and logic
Computer arithmetic
Summation, recurrence equations, integration
Solution of ODEs & PDEs
Symbolic methods in other areas of 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
Use with systems for, e.g., 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.

