

CASC 2005: Accepted Papers

(alphabetical due to first author)

int. Nr.	all Authors	Title
58	S. A. Abramov, M. Bronstein and D.E. Khmel'nov	On Regular and Logarithmic Solutions of Ordinary Linear Differential Systems
9	Saugata Basu and Michael Kettner	Computing the Betti Numbers of Arrangements in Practice
70	I. N. Belyaeva, N. A. Chekanov, A. A. Gusev, V. A. Rostovtsev, Yu. A. Ukolov, Y. Uwano and S. I. Vinitsky	A MAPLE Symbolic-Numeric Program for Solving of the 2D-Eigenvalue Problem by a Self-Consistent Basis Method
4	Rudolf Berghammer and Frank Neumann	RELVIEW - An OBDD-based Computer Algebra System For Relations
41	M. Borges-Quintana, M. A. Borges-Trenard and E. Martinez-Moro	On the Use of Gröbner Bases for Computing the Structure of Finite Abelian Groups
53	A. D. Bruno and V. F. Edneral	Normal Forms and Integrability of ODE Systems
30	Laurent Buse, Houssam Khalil and Bernard Mourrain	Resultant-Based Methods for Plane Curves Intersection Problems
22	Carlo Cattani, Evgenii A. Grebenikov and Alexander N. Prokopenya	Symbolic Calculations in Studying the Stability of Dynamically Symmetric Satellite Motion
69	D. Chibisov, V. Ganzha, S. Pankratov and C. Zenger	Computer Algebra in Nanosciences: Modeling of Electronic States in Quantum Dots
68	D. Chibisov, V. Ganzha, E. W. Mayr, E. Vorozhtsov	Generation of Orthogonal Grids On Curvilinear Trimmed Regions in Constant Time
61	Arthur D. Chtcherba, Deepak Kapur and Manfred Minimair	Cayley-Dixon Resultant Matrices of Multi-Univariate Composed Polynomials
57	Arno Eigenwillig, Lutz Kettner, Werner Krandick, Kurt Mehlhorn, Susanne Schmitt and Nicola Wolpert	A Descartes Algorithm for Polynomials with Bitstream Coefficients
59	Ioannis Z. Emiris and Elias P. Tsigaridas	Real Solving of Bivariate Polynomial Systems
24	J. Gago-Vargas, M. I. Hartillo-Hermoso and J. M. Ucha-Enriquez	Nouvelle Cuisine for the Computation of the Annihilating Ideal of f^s
37	Vladimir P. Gerdt and Yuri A. Blinkov	Janet-like Gröbner Bases
36	Vladimir P. Gerdt and Yuri A. Blinkov	Janet-like Monomial Division
17	Domingo Gomez, Jaime Gutierrez and Alvar Ibeas	Circulant Digraphs and Monomial Ideals
29	Rocio Gonzalez-Diaz, Belen Medrano, Pedro Real and Javier Sanchez-Pelaez	Algebraic Topological Analysis of Time-Sequence of Digital Images
8	Laureano Gonzalez-Vega, Carlo Traverso and Alberto Zanoni	Hilbert Stratification and Parametric Gröbner Bases
19	E. A. Grebenicov, D. Kozak-Skoworodkin and M. Jakubiak	Investigation of the Stability Problem for the Critical Cases of the Newtonian Many-Body Problem

40	Alexander Gusev, Vladimir Gerdt, Michail Kaschiev, Vitaly Rostovtsev, Valentin Samoylov, Tatyana Tupikova, Yoshio Uwano and Sergue Vinitzky	Symbolic-Numerical Algorithm for Solving the Time-Dependent Shrödinger Equation by Split-Operator Method
20	Valentin Irtegov and Tatyana Titorenko	On Some Results of Investigation of Kirchhoff Equations in Case of a Rigid Body's Motion in Fluid
38	Vladimir V. Korniyak	On Compatibility of Discrete Relations
49	C. Koukouvinos and E. Lappas	Construction of Two Level Orthogonal Arrays Via Solutions of Linear Systems
50	C. Kravvaritis, M. Mitrouli and Jennifer Seberry	Counting Techniques Specifying the Existence of Submatrices in Weighing Matrices
2	Liu, Shu and Andreas Weber	A Symbolic-Numeric Method For Solving Boundary Value Problems of Kirchhoff Rods
48	Shinya Miyajima, Takeshi Ogita and Shin'ichi Oishi	Fast Verification for Respective Eigenvalues of Symmetric Matrix
54	Kosaku Nagasaka	Towards More Accurate Separation Bound of Empirical Polynomials II
66	David G. Richardson and Werner Krandick	Compiler-Enforced Memory Semantics in the SACLIB Computer Algebra Library
31	E. Roanes-Lozano, R. Garcia, E. Roanes-Macias, A. Aparicio and L. M. Laita	Meta-Petro: An Expert System for Training Undergraduates in Metamorphic Rocks Recognition and Classification Using Photomicrographics
33	Susanne Schmitt	The Diamond Operator - Implementation of Exact Real Algebraic Numbers
26	Leonid Semin and Vasily Shapeev	Constructing the Numerical Method for Navier-Stokes Equations Using Computer Algebra System
72	Alexander Shermenev	Nonlinear Waves in a Rod
45	S. Yu. Slavyanov and V. Yu. Papshev	Differential and Difference Equations for Products of Classical Orthogonal Polynomials
55	Akhmadjon Soleev	Algorithm of Local Resolution of Singularities of a Space Curve
71	Thomas Sturm	Quantifier Elimination for Constraint Logic Programming
52	Akira Suzuki	Computation of Full Comprehensive Gröbner Bases
46	Akira Terui	Recursive Polynomial Remainder Sequence and the Nested Subresultants
18	Sergey Yu. Vernov	Interdependence between the Laurent-Series and Elliptic Solutions of Nonintegrable Systems
42	Volker Weispfenning	Solving Linear Differential Problems with Parameters
11	Serguey Zemskov	Approximate Solution of the Dirichlet Problem for Elliptic PDE and Its Error Estimate