

CASC 2018 Schedule

	Monday 17	Tuesday 18	Wednesday 19	Thursday 20	Friday 21
08h00-09h00	Welcome		Software Session		Symbolic-Numeric Session
09h00-09h30	Tutorial of N. Verdière	Invited Talk of J.-G. Dumas	17	Invited Talk of M. Kibler	7
09h35-10h05			26		4
		coffee break	coffee break	coffee break	coffee break
		Real and Integer Solving Session	Algebraic Methods Session	Groups and Complexity Session	Combinatorics Session
10h30-11h00		22	18	6	12
11h05-11h35		25	20	11	3
11h35-12h10		24	27	13	28
	lunch				
		Tropical Session			End of the conference
14h00-14h30	Tutorial of M. Moreno Maza	1	Excursion and Social Dinner	New Features in Maple 2018	
14h35-15h05		2		New Features in Maple 2018	
		coffee break		coffee break	
		Polynomial Solving Session		Physics Session	
15h30-16h00		9		5	
16h05-16h35		8		14	
16h40-17h10		23		16	
	Reception	Business meeting			

CASC 2018 Schedule

Tuesday

CASC 2018 Schedule

Invited Talk Jean-Guillaume Dumas

Proof-of-work certificates that can be efficiently computed in the cloud

Real and Integer Solving Session

22 Changbo Chen and Wenyuan Wu

A Continuation Method for Visualizing Planar Real Algebraic Curves with Singularities

25 Hoon Hong and Thomas Sturm

Positive Solutions of Systems of Signed Parametric Polynomial Inequalities

24 José Manuel Jiménez Cobano, María Isabel Hartillo Hermoso and José María Ucha Enríquez

Finding Multiple Solutions in Nonlinear Integer Programming with Algebraic Test-sets

Tropical Session

1 Dima Grigoriev

Tropical Newton-Puiseux polynomials

2 Dima Grigoriev and Nicolai Vorobjov

Orthogonal tropical linear prevarieties

Polynomial Solving Session

9 Tateaki Sasaki

A Theory and an Algorithm for Computing Sparse Multivariate Polynomial Remainder Sequence

8 Jan Verschelde

A Blackbox Polynomial System Solver on Parallel Shared Memory Computers

23 Yuki Ishihara and Kazuhiro Yokoyama

Effective Localization Using Double Ideal Quotient and Its Implementation

Wednesday

Software Session

17 Hiromi Ishii

Purely Functional Computer Algebra System Embedded in Haskell

26 Mohammadali Asadi, Alexander Brandt, Robert Moir and Marc Moreno Maza

Sparse Polynomial Arithmetic with the BPAS Library

Algebraic Methods Session

18 Hoda Binaei, Amir Hashemi and Werner M. Seiler

Computation of Pommaret Bases Using Syzygies

20 Sergei Abramov and Denis Khmel'nov

On unimodular matrices of difference operators

27 Michael Monagan and Baris Tuncer

Factoring Multivariate Polynomials with Many Factors and Huge Coefficients

Thursday

Invited Talk Maurice Kibler

Quantum information and quantum computing: an overview and some mathematical aspects

Groups and Complexity Session

6 Vladimir Kornyak

Splitting Permutation Representations of Finite Groups by Polynomial Algebra Methods

11 Algirdas Deveikis, Alexander Gusev, Vladimir Gerdt, Sergue Vinit'sky, Andrzej Gozdz and Aleksandra Pedrak

Symbolic Algorithm for Generating of Orthonormal Bargmann and Moshinsky Basis for $SU(3)$ group

CASC 2018 Schedule

13	Timur Sadykov	Beyond the First Class of Analytic Complexity
Sponsor Talk		New Features in Maple 2018
Applications to Physics Session		
5	Yury Blinkov, Vladimir Gerdt, Dmitry Lyakhov and Dominik Michels	A Strongly Consistent Finite Difference Scheme for Steady Stokes Flow and its Modified Equations
14	Valentin Irtegov and Tatiana Titorenko	Qualitative Analysis of a Dynamical System with Irrational First Integrals
16	Alexander Gusev, Vladimir Gerdt, Ochbadrakh Chuluunbaatar, Galmandakh Chuluunbaatar, Sergue Vinitsky, Vladimir Derbov, Andrzej Gozdz and Pavel Krassovitskiy	Symbolic-Numerical Algorithms for Solving Elliptic Boundary-Value Problems Using Multivariate Simplex Lagrange Elements
Friday		
Symbolic-Numeric Session		
7	Francois Boulier, H�el�ene Castel, Nathalie Corson, Valentina Lanza, Fran�ois Lemaire, Adrien Poteaux, Alban Quadrat and Nathalie Verdi�ere	Symbolic-Numeric Methods for Nonlinear Integro-Differential Modeling
4	Sergey Gutnik and Vasily Sarychev	Symbolic-Numeric Simulation of Satellite Dynamics with Aerodynamic Attitude Control System
Combinatorics Session		
12	Pavel Emelyanov and Denis Ponomaryov	On Polytime Algorithm for Factorization of Multilinear Polynomials over F_2
3	Annie Cuyt, Ferre Knaepkens, and Wen-shin Lee	From exponential analysis to Pad�e approximation and tensor decomposition, in one and more dimensions
28	Gerard H.E. Duchamp, Vincel Hoang Ngoc Minh and Karol Penson	Computation of some Drinfel'd associators