Monday, June 25

8:00	Registration		
10:30		Opening Ceremony Room A	
11:00		Coffee	
11:30	Clifton Williamson (Proton Digital Systems) Symbolic Computation in the Design of Coding Systems Room A		
12:30	Lunch		
	Computer Algebra in Coding Theory and Cryptography I Room 1	Nonstandard Applications of Computer Algebra I Room 2	Computer Algebra for Dynamical Systems and Celestial Mechanics Room 3
2:00	<i>M. Tolga Sakalli and B. Aslan</i> Algebraic Construction of 16×16 Binary Matrices of Branch Number 7 with One Fixed Point	<i>Emiliya Saranova, Margarita</i> <i>Spiridonova and Stoyan Poryazov</i> Re-dimensioning Task Solutions using Computer Algebra Systems	<i>M. Olle, E. Barrabes and J.M. Mondelo</i> Computation of doubly asymptotic solutions
2:30	Athar Mahboob Speeding up Discrete Logarithm and Elliptic Curve Based Cryptography over GF (2m) on General Purpose Processors using Lookup Table Based Finite Field Arithmetic Techniques	J. L. Galán, S. Merino, J. Martínez and M. de Aguilera Classifying the items of a Likert based questionnaire in different competences	A.D. Bruno and V.F. Edneral Normal Forms of the Euler-Poisson Equations
3:00	<i>S. Akleylek, F. Özbudak and C. Özel</i> Charlier Polynomial Representation for Finite Fields of Characteristic Three	Antonio Hernando, Roberto Maestre- Martínez and Eugenio Roanes-Lozano An algebraic approach for detecting potential dangerous situations in expert systems through Gröbner bases	A.Mylläri, M.Valtonen, V. Orlov and A.Rubinov The stability criteria for three-body system
3:30	<i>V. Monev</i> An Implementation of Large Number Arithmetic and its Application for Classification of Self-Dual Codes	<i>Francisco Botana and Miguel Á.</i> <i>Abánades</i> A symbolic-numeric environment for computing equidistant curves	<i>T. Combot</i> Non integrability of the colinear 3 and 4 body problem
4:00		Coffee	
4:30	<i>A. Fuster</i> Generation of cryptographic sequences by means of difference equations	Antonio Montes and Tomas Recio Generalizing the Steiner-Lehmus Theorem using the Gröbner Cover	N. Vasiliev Universal Involutive Basis and Robbiano Border Bases
5:00	<i>F. Piva and R. Dahab</i> Using systematic error correcting codes for reversible degradation of multimedia content.	<i>Eugenio Roanes-Lozano</i> Some geometric remarks concerning the overthrow of the different types of railway vehicles when sitting on curved track	N. Vasiliev and A. Terentiev About modeling of Markov processes with asymptotically central measure on three dimensional Young diagrams
5:30	<i>Shutaro Inoue and Y. Sato</i> An extension of the NTRU Cryptosystem	Stephen M. Watt Garbage Collecting the World Wide Web	<i>A. Rosaev</i> The parametric resonance as a source of chaotic behavior in a restricted three body problem
6:00-7:00		Buisness Meeting Room 1	
8:00-10:00		Welcome Party	

Tuesday, June 26

9:00	Dana Petcu (West University of Timişoara)		
	Benefits and Barriers of Symbolic Computations on Clouds and Grids Room A		
10:00	Coffee		
	Computer Algebra in Coding Theory and Cryptography II Room 1	Nonstandard Applications of Computer Algebra II Room 2	Algebraic and Algorithmic Aspects of Differential and Integral Operators I Room A
10:30	<i>S. Datt Kumar, S. K. Upadhyay and R. Lal</i> Cryptosystem based on platform group of amalgamated free products of braid group	<i>Eduardo Saenz-de-Cabezon and Henry</i> <i>P. Wynn</i> Network Attacks based on Vertex Coverings	<i>Franz Winkler</i> Algebraic Differential Equations - Rational Solutions and Classification
11:00	<i>H. Tapia-Recillas and J.C. Ku-Cauich</i> Bent functions on a Galois ring and Systematic Authentication Codes	<i>G. Aguilera, A. Almiro'n, J. L. Galán, E.</i> <i>Mérida, Y. Padilla and P. Rodríguez</i> An accelerated-time simulation of baggage traffic in an airport terminal	<i>Daniel Robertz</i> Implicitization of Parametrized Families of Analytic Functions
11:30	<i>S. Bulygin</i> TBA	Eugenio Roanes-Lozano, Eduardo A. Casella, Fernando Sanchez and Antonio Hernando A rule based expert system for hitting technique in amateur tennis competition	<i>Xiao-Shan Gao</i> Sparse Differential Resultant for Laurent Differential Polynomials
12:00	P. Seneviratne and J. Limbupasiriporn Permutation decoding for codes from generalized Paley graphs	Yovan Íñiguez del Río, Lourdes Cecilia Fernández-Conde and José Gabriel Zato Recellado An algebraic approach for an efficient and sustainable driving model based on a propositional logic	Chun-Ming Yuan Differential Chow Forms
12:30	Lunch		
	Computer Algebra in Coding Theory	Computation Aspects of	Algebraic and Algorithmic Aspects of
	and Cryptography III Room 1	Constrained Dynamical Systems and Field Theories Room 3	Differential and Integral Operators II Room 2
2:00	<i>J. Pujol, M. Villanueva and F. Zeng</i> Minimum Distance of Binary Nonlinear Codes	<i>Plamen P. Fiziev</i> Strar Models in Minimal Dilatonic Gravity (MDG)	<i>François Boulier and Nicolas M. Thiéry</i> A Differential Algebra Package in SAGE
2:30	I. Bouyukliev, M. Dzhumalieva-Stoeva and W. Willems Representing Equivalence Problems for Combinatorial Objects	V. S. Gerdjikov Exceptional Lie algebras and spectral properties of the Lax operators with Maple	Sette Diop On a Differential Algebraic Approach of Control Observation Problems
3:00	<i>T. Baicheva and S. Topalova</i> Optimal optical orthogonal codes of weight 5 and small lengths	Vladimir P. Gerdt Singular field theories, Lagrangian constraints and differential Thomas decomposition	<i>Johannes Middeke</i> On the Computation of Pi-flat Outputs for Differential-Delay Systems
3:30	D. E. Simos and Z. Varbanov MDS Codes, NMDS Codes and their Secret- Sharing Schemes	Georgi G. Grahovskit Constructing Integrals of Motion for a Class of Ferromagnetic Type Integrable Equations on A.III-type Symmetric Space	Ruyong Feng On the Structure of Compatible Rational Functions
4:00	Coffee		
4:30	<i>T. Britz</i> On matroid chains	D.M. Mladenov Instant, Light-Front and Point Forms of Dynamics for Spatially Homogeneous Yang-Mills Theory	<i>Ivan Dimovski</i> Operational Calculi for Boundary Value Problems
5:00	<i>N. Yankov</i> Self-dual codes of length 56 with an automorphism of order 5 and self-orthogonal 3-(56, 12, 65) designs	Jukka Tuomela Geometry of configuration space of mechanical systems	Ivan Dimovski and Margarita Spiridonova Extended Heaviside Algorithm for Resonance Mean-Periodic

			Solutions of Nonlocal Cauchy Problems
5:30	<i>E. Martínez Moro</i> Gröbner	Werner M. Seiler Computer-Algebraic	Yulian Tsankov Exact Solution of Local
	presentations of linear and additive	Analysis of Physical Field Theories	and Nonlocal BVPs for the Laplace
	codes		Equation in a Rectangle

Wednesday, June 27

9:00	Tetsu Yamaguchi (Maplesoft) Roles and Expectations of Symbolic Computation in Automotive Development Room A			
10:00		Coffee		
	Computer Algebra in Education I Room A	Interaction between Computer Algebra and Interval Computation Room 3	Algebraic and Algorithmic Aspects of Differential and Integral Operators III Room 2	
10:30	Petar Kenderov and Evgenia Sendova Spreading the Inquiry Based Mathematics Education in Bulgaria within the Fibonacci European Project	<i>Walter Kraemer</i> Computing Optimal Boxes Enclosing the Range of Complex Functions	<i>Li Guo</i> Free Integro-Differential Algebras	
11:00	<i>A. G. Akritas, I. I.Apostolopoulou and</i> <i>G. S. Floros</i> Computing Sturm sequences with matrix triangularization	<i>Milen Borisov</i> The Maple Package BifTools for Bifurcation Analysis of Dynamical Systems	S. Thota and S. D. Kuma Boundary Problems for Linear Systems of Differential Equations over an Integro- Differential Algebra	
11:30	<i>Tsetska Rashkova and Angel Kanchev</i> Usage of the System Mathematica in Teaching and Learning Number Theory	Evgenija D. Popova Explicit description of quasi-symmetric solution set: computer assisted proof of superfluous inequalities	Markus Rosenkranz Localization and the Mikusinski Calculus	
12:00			Anja Korporal Composition and Factorization of Generalized Inverses and Boundary Problems	
12:30		Lunch		
2:00-7:00	Excursion			
8:00-10:00	Dinner			

9:00	Viktor I	evandovskyy (RWTH Aachen Un	iversity)	
	Tre	ends in Computer Algebraic Analy	/sis	
	Room A			
10:00	Coffee			
	Computer Algebra in Education II	Parallel Computer Algebra	Algebraic and Algorithmic Aspects of	
	Deem A	Applications I	Differential and Integral Operators IV	
10.20	Room A	ROOM 1	Room 2	
10:30	About the Potential of CAS and LMS for	POLY: A new polynomial data	Alban Quadrat and Daniel Robertz Module Structure of Rings of Partial	
	Enhancement of Mathematics Education	structure for Maple 17	Differential Operators	
11:00	Mladen Manev Students' Competition of	Stephen Watt Parallel computing in	Yongjae Cha Homomorphism Between	
	Computer Mathematics CompMath	mathematical character recognition.	two Difference Operators	
11:30	M.M. Konstantinov and V. V. Pasheva	Ilias Kotsireas Challenging	Alexandre Benoit Quasi-Optimal	
	CAS IN Mathematical Education for	from autocorrelation	Operators	
	Engineers		operators	
12:00	E. Roanes-Lozano and E. Roanes-Macias	Shutaro Inoue and Yosuke Sato.	Alin Bostan Fast Computation of Common	
	Some elementary examples on the need	On parallel computations of Boolean	Left Multiples of Linear Ordinary	
	mechanical theorem proving in geometry	combinatorial problems	Differential Operators	
12:30				
		Lunch		
	Computer Algebra in Education III	Parallel Computer Algebra	Algebraic and Algorithmic Aspects of	
		Applications II	Differential and Integral Operators V	
	Room A	Room 1	Room 2	
2:00	Samet Karaibryamov, Bistra Tsareva	I.A. Borisov About one matrix approach	Vladimir Gerdt Computer Algebra	
	and Boyan Zlatanov Sam: Dynamic	to parallel constructing of Gröbner	Application to Numerical Solving of	
	Geometric Software to Optimize the	bases	Nonlinear KdV-type Equations	
	Inventive Style of Thinking			
2:30	Michael Monagan Teaching	G.I. Malaschonok On fast generalized	Serguey V. Zemskov On Finding a	
	Commutative Algebra and Algebraic	Bruhat decomposition in a domain.	Complete Integral of Second-Order	
	Geometry using Computer Algebra		Hyperbolic PDEs with Constant	
3.00	Systems Maria G. Karatopraklieva Computer	M A Rybakov Parallel computation of	Coefficients in Infinite Space	
5.00	Proofs of Identities Using CAS	general solutions of systems of ordinary	holonomic Sequences by Complex Roots	
	U U	differential equations with constant	of Unity	
		coefficients		
3.30				
5.50		Coffee		
4:00	Spyros Kehagias and Alkiviadis G.	N.A. Malaschonok Parallel solving	Thierry Combot Algorithms for Non	
	Akritas Implementation of VAS in iOS	systems of linear differential equations	Integrabililty Proofs	
		transform		
4:30		A.A. Betin A parallel algorithm for	Guillaume Cheze An Efficient Algorithm	
		modular calculation of an adjoint matrix	for Computing Rational First Integrals of	
		in the polynomial ring	Polynomial Vector Fields	
5:00		Closing		
	Room A			

Thursday, June 28