



ACA 2017

23rd Conference on Applications of Computer Algebra 17-21 July, 2017, Jerusalem

Commemorating the Heritage of Jonathan Michael Borwein

Wednesday 19 July

9:00 - 10:00	Plenary #3 - Auditorium Doron Zeilberger Jonathan Borwein: a PiONEER of Experimental Mathematics			
10:00 - 10:30	Coffee Break			
10:30 - 11:00	S1 - Auditorium	S11 - Room 315	S13 - Room 325	S15 - Room 460
11:00 - 11:30	M. Beaudin Engineering Mathematics and CAS	M.S. Kim Efficient Algorithms using Dynamic Bounding Volume Hierarchy for Freeform Geometric Shapes under Deformation	Y.Mandelbaum, A. Stein, Y. Yitzhaky, I. Leichter Breast Cancer Risk Estimation based on Machine Learning Methods for Computerized Assessment of Breast Composition in Digital Mammograms	J. Johnson, G. Malaschonok, M.M. Maza Interactions between high-performance computing and computer algebra: overview (part I)
	M. Xue Generating Power Summation Formulas Using a Computer Algebra System	J.G. Alcazar On the computation of the straight lines contained in a rational surface	D.G. Zeitoun, T. Dana-Picard The usage of different coordinates systems for 3D plot of discontinuous functions	J. Johnson, G. Malaschonok, M.M. Maza Interactions between high-performance computing and computer algebra: perspectives (part II)
11:30 - 12:00	A.G. Akritas, G.I. Malaschonok, P.S. Vigiaklas A sympy/sage Module for Computing Polynomial Remainder Sequences	M. Barton Modeling and rationalization of free-form surfaces	Walker, J. Benjamin, T. Mylläri, A. Mylläri CAS for Simulating Modern Art: Enforcing "Fractal" Structure	X. Dahan Fast construction of a lexicographic Gröbner basis of the vanishing ideal of a set of points
12:00 - 12:30	A. Naiman Automated Function Analysis for Calculus		E. Fredj, N. Friedman Evolution of the olive pit from the time of the Mishna to present time, based on 3D image processing techniques.	S. Graillat A Parallel Compensated Horner Scheme
12:30 - 13:30	Lunch			
13:30 - 14:10	Sponsors Talk - Auditorium Omer Yagel, Digisec-Technology (Maplesoft), TBA			
14:15 - 15:15	Plenary #4 - Auditorium Alfred Inselberg, Parallel Coordinates: Visual Multidimensional Geometry and its Applications			
15:15 - 17:30	Excursion			
17:30	Free Time			
19:30	Gala Dinner			