Workshop on Geometric Constraint Solving
Thursday, October 23, 2003
Room 110, Morningside Center for Mathematics

PROGRAM

08:30 – 08:40 Welcome and Opening Remarks

08:40 – 09:10 Robert Joan-Arinyo:
Tools to Deal with Under-constrained Geometric Constraint Graphs

09:10 – 09:40 Liping Chen
Singularity Analysis of Geometric Constraint System

09:40 – 10:10 Dominique Michelucci
Intrinsic Formulations of Geometric Constraints

10:10 – 10:40 Lu Yang
Solving Geometric Constraints with Distance-Based Global Coordinate System

10:40 – 11:00 Tea break

11:00 – 11:30 Ching-Shoei Chiang
Variable-Radius Circles in Constructive Geometric Constraint Solving

11:30 – 12:00 Pascal Schreck
About the Lebesgue Method.

12:00 – 12:30 Xiao-Shan Gao
Decomposition and Merge for Geometric Constraint

12:40 – Lunch at fourth floor of the Wu-Ke Hotel Restaurant

Registration at

• 2PM-8PM, October 22, at the Wu-Ke Hotel Lobby.

• 8AM-6PM, October 23, outside Conference Room 212 at the second floor of The Condensed Matter General Building.

• 8AM-10AM, October 24, outside Conference Room 212 at the second floor of The Condensed Matter General Building.
The Sixth Asian Symposium on Computer Mathematics
October 23–25, 2003

PROGRAM

All lectures will take place in Conference Room 212 at the second floor of The Condensed Matter General Building. Speakers should note that the allotted time includes five minutes for questions and change over.

Thursday, October 23

14:00 – 14:10 Welcome and Opening Remarks

14:10 – 18:00 Session I

14:10 – 14:40 Ciro Ciliberto, Francesca Cioffi, Rick Miranda, Ferruccio Orecchia
Bivariate Hermite Interpolation and Linear Systems of Plane Curves with Base Fat Points

14:40 – 15:10 Falai Chen, Lin Deng
Interval Parametrization of Planar Algebraic Curves (presented by Dr. Jiansong Deng)

15:10 – 15:40 Jinsan Chen
Blending Quadric Surfaces via a Base Curve Method

15:40 – 16:30 Tea Break and POSTER SESSION

16:30 – 17:00 Hongbo Li, Yi Cheng
A Bracket Method for Judging the Intersection of Convex Bodies

17:00 – 17:30 Fangling Zeng, Falai Chen
Degree Reduction of Rational Curves by $\mu$-Bases

17:30 – 18:00 Nor’Aini Aris, Ali And Rahman
On the Division of Generalized Polynomials

18:30 – 20:30 Reception party at Fourth floor of the Wu-Ke Hotel Restaurant

Friday, October 24

8:30 – 9:30 Invited talk
Deepak Kapur Multivariate Resultants based on Cayley-Dixon’s Method

09:30 – 09:50 Tea Break

09:50 – 12:10 Session II

09:50 – 10:20 Mao-Ching Foo, Eng-Wee Chionh
Corner Point Pasting and Dixon $A$-resultant Quotients

10:20 – 10:50 Iias Kotsireas, Edmond Lau
Implicitization of Polynomial Curves

10:50 – 11:10 Tea Break
11:10 – 11:40 Yosuke Sato, Akira Suzuki, Katsusuke Nabeshima
Discrete Comprehensive Gröbner Bases II

11:40 – 12:10 Xiao-Shan Gao and Dinglang Wang
Zero Decomposition Theorems for Counting the Number of Solutions for Parametric Equation Systems

12:10 – 13:30 Lunch at fourth floor of the Wu-Ke Hotel Restaurant

13:30 – 15:50 Session III

13:30 – 14:00 Lihong Zhi
Displacement Structure in Computing Approximate GCD of Univariate Polynomials

14:00 – 14:30 Ming Zhang, R. Allen White
A Molecular Inverse Kinematics Problem: An Approximation Approach and Challenges

14:30 – 14:50 Tea Break

14:50 – 15:20 Hung-Tsai Huang, Zi-Cai Li, Aihui Zhou
Global Superconvergence of Biquadratic Lagrange Elements for Poisson’s Equation

An Exploration of Homotopy Solving in Maple

16:00 – 20:00 Conference Dinner at the Summer Palace

Saturday October 25

08:30 – 09:30 Invited Talk

Nobuki Takayama
Algebraic Algorithms for D-modules and Numerical Analysis

09:30 – 09:50 Tea Break

09:50 – 12:10 Session IV

09:50 – 10:20 M. Hickman, W. Hereman
Densities and Fluxes of Differential-Difference Equations

10:20 – 10:50 Engui Fan
A Series of Exact Solutions of Two Extended Coupled Ito Systems

10:50 – 11:10 Tea Break

11:10 – 11:40 Fuding Xie, Hongqing Zhang, Yong Chen, B. Li
Application of Wu-Ritt Differential Elimination Method in Painlevé Test

11:40 – 12:10 V. Houseaux, G. Jacob, N.E. Oussous, M. Petitot
A Complete Maple Package for Noncommutative Rational Power Series

12:10 – 13:20 Lunch at fourth floor of the Wu-Ke Hotel Restaurant

13:30 – 19:00 Sightseeing at Great Wall

19:00 – 21:00 Dinner.