

# Symbolic-Numeric Computation 2007

www.orcca.on.ca/conferences/snc2007

July 25-27, 2007

## Invited Speakers

André Galligo, U Nice  
Erich Kaltofen, NCSU  
Nick Trefethen, U Oxford  
Charles Wampler, GM Research  
Lihong Zhi, MMRC CAS

## Topics

- Hybrid symbolic-numeric algorithms
- Approximate polynomial GCD and factorization
- Symbolic-numeric methods for polynomial systems
- Structured matrices in symbolic-numeric computation
- Differential equations for symbolic-numeric computation
- Symbolic-numeric algorithms for algebraic geometry, geometric computation and optimization
- Implementation of symbolic-numeric algorithms
- Model construction with approximate algebraic algorithms
- Applications of symbolic-numeric computation
- Numerical algebraic geometry

## Important Dates

Submission deadline: April 9, 2007  
Notification: May 28, 2007  
Camera ready version due: June 15, 2007

## Program Committee

Dario Bini, Italy  
Robert Corless, Canada  
James Demmel, USA  
Ioannis Emiris, Greece  
Marc Moreno Maza, Canada  
Bernard Mourrain, France  
Victor Pan, USA  
Greg Reid, Canada  
Tateaki Sasaki, Japan  
Andrew Sommese, USA  
Jan Verschelde (Chair), USA  
Dongming Wang, France  
Zhonggang Zeng, USA

# Parallel Symbolic Computation 2007

www.orcca.on.ca/conferences/pasco2007

July 27-28, 2007

## Invited Speakers

Mike Bauer, UWO  
Matteo Frigo, Cilk Arts  
Thierry Gautier, INRIA  
Katherine Yelick, UC Berkeley

## Topics

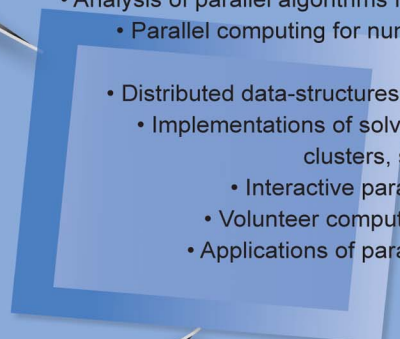
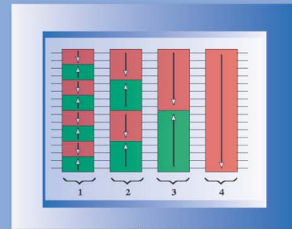
- Parallel computer algebra
- High performance for exact and approximate procedures
- Analysis of parallel algorithms for algebraic computations
  - Parallel computing for number theory, combinatorial and discrete methods
- Distributed data-structures for algebraic computation
  - Implementations of solvers on multi-cores, SMPs, clusters, supercomputers and grids
  - Interactive parallel symbolic computation
  - Volunteer computing for symbolic problems
- Applications of parallel symbolic computation

## Important Dates

Submission deadline: April 16, 2007  
Notification: May 28, 2007  
Camera ready version due: June 15, 2007

## Program Committee

Gene Cooperman, USA  
Jean-Guillaume Dumas, France  
Jean-Charles Faugère, France  
Mark Giesbrecht, Canada  
Erich Kaltofen, USA  
Anton Leykin, USA  
Marc Moreno Maza (Chair), Canada  
Jean-Louis Roch, France  
David Saunders, USA  
William Stein, USA  
Carlo Traverso, Italy  
Gilles Villard, France



General Chairs: Stephen M. Watt (SNC)  
Marc Moreno Maza (PASCO)  
Administration: Meg Borthwick

watt@orcca.on.ca  
moreno@orcca.on.ca  
meg@csd.uwo.ca

Local Arrangements: Oleg Golubitsky  
Éric Schost  
François Lemaire

oleg@orcca.on.ca  
schost@orcca.on.ca  
lemaire@lifl.fr



University of Western Ontario, London Canada