



THEORETICAL COMPUTER SCIENCE

SPECIAL ISSUE on

Symbolic and Numeric Computation

SNC 2011, Call For Papers

This special issue will include selected refereed papers on Symbolic and Numerical Computation presented at the SNC 2011 conference held June 7-9, 2011 in San Jose California

<http://www.cargo.wlu.ca/SNC2011/>

as well as other relevant papers in this subject area.

Guest Editors:

Ilias S. Kotsireas
Wilfrid Laurier University
Department of Physics and Computer Science
75 University Avenue West
Waterloo, Ontario N2L 3C5 CANADA
e-mail: ikotsire@wlu.ca
<http://www.wlu.ca/science/physcomp/kotsireas/>

Bernard Mourrain
EPI GALAAD
INRIA Méditerranée
2004 route des Lucioles, B.P. 93,
06902 SOPHIA ANTIPOLIS,
Cedex FRANCE
e-mail: Bernard.Mourrain@sophia.inria.fr
<http://www-sop.inria.fr/galaad/mourrain/>

Victor Y. Pan
Department of Mathematics and Computer Science
Lehman College and the Graduate Center
City University of New York
Bronx, NY 10468, USA
e-mail: victor.pan@lehman.cuny.edu
<http://comet.lehman.cuny.edu/vpan/>

Lihong Zhi
Key Laboratory of Mathematics Mechanization
Academy of Mathematics & System Sciences
Chinese Academy of Sciences
No. 55, East Road, Zhongguancun,
Beijing, 100190, China
e-mail: lzhi@mmrc.iss.ac.cn
<http://www.mmrc.iss.ac.cn/~lzhi>

Three previous Special Issues of TCS on this subject have appeared:

- 2004 (vol. 315 (2-3), pp. 307-672)
- 2008 (vol. 409 (2), pp. 155-331)
- 2011 (vol 412 (16), pp. 1443-1543)

All papers will be refereed according to the high standards of TCS.

Specific topics include, but are not limited to:

- Hybrid symbolic-numerical algorithms
- Symbolic-numerical computations with structured matrices and resultants
- Symbolic-numerical methods for polynomial equations and systems of equations
- Numerical computation of Groebner bases and characteristic sets
- Symbolic-numerical methods for geometric and algebraic-geometric computation
- Approximate polynomial GCD and factorization
- Approximate polynomial and rational decompositions and interpolation
- Approximate algebraic algorithms
- Symbolic methods for numerical stabilization
- Stabilization of algebraic algorithms
- Symbolic-numerical methods for differential equations
- Symbolic-numerical algorithms for nonlinear optimization
- Implementation of symbolic-numerical algorithms
- Applications of symbolic-numerical computation

Paper Submission:

Authors are encouraged to submit their work using EasyChair
<http://www.easychair.org/conferences/?conf=snctcs11>

All paper submissions will be explicitly acknowledged by at least one of the Guest Editors.

In the case of explicit requests of the prospective contributors the next announcement may grant a minor extension of the submission deadline

Important Dates:

Submission deadline: November 20, 2011
Author Notification: May 30, 2012
Camera ready: July 2012