
Mathematics Calendar

The most comprehensive and up-to-date Mathematics Calendar information is available on e-MATH at <http://www.ams.org/mathcal/>.

November 2006

* 13–14 **The Ninth DIMACS Implementation Challenge: The Shortest Path Problem**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Goals: Shortest path problems are ones of the most fundamental combinatorial optimization problems with many applications, both direct and as subroutines in other combinatorial optimization algorithms. Algorithms for these problems have been studied since 1950's and still remain an active area of research. One goal of this challenge is to create a reproducible picture of the state of the art in the area of shortest path algorithms. To this end we are identifying a standard set of benchmark instances and generators, as well as benchmark implementations of well-known shortest path algorithms. Another goal is to enable current researchers to compare their codes with each other, in hopes of identifying the more effective of the recent algorithmic innovations that have been proposed.

Organizers: Camil Demetrescu, University of Rome "La Sapienza"; Andrew Goldberg, Microsoft Research; David Johnson, AT&T Labs-Research, dsj@research.att.com.

Local Arrangements: Workshop Coordinator, DIMACS Center, workshop@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Challenge9/>.

December 2006

* 11–13 **DIMACS Workshop on Immuno-epidemiology**, DIMACS Center, CoRE Bldg, Rutgers University, Piscataway, New Jersey.

Description: Individual hosts differ considerably in the way in which they respond to the same pathogen. This is not only

caused by genetic polymorphism determining immune reaction (e.g. MHC), but also by the infection history of the individual (e.g. influenza, parasites with acquired immunity, dengue). An individual's history is a result of the past pattern of transmission in the population. Population transmission (infection pressure) by itself is the collective output of infectious material by the individuals that constitute the population, which in turn is decided by each individual's reaction to the pathogen. This closes a circle of mutual interaction and influence. This cycle influences the population effects of control measures aimed at individuals, and the evolution of resistance and virulence. In order to understand these processes we need a fuller understanding of the immunity-transmission cycle.

Organizers: Hans Heesterbeek, Universiteit Utrecht, The Netherlands, j.a.p.heesterbeek@vet.uu.nl; Rob de Boer, Universiteit Utrecht, The Netherlands, r.j.deboer@bio.uu.nl.

Local Arrangements: Workshop Coordinator, DIMACS Center, workshop@dimacs.rutgers.edu, 732-445-5928.

Information: <http://dimacs.rutgers.edu/Workshops/Immuno/>.

* 15–17 **2nd International Workshop on Matrix Analysis and Applications**, Nova Southeastern University, Fort Lauderdale, Florida.

Aim: The aim of this mathematical meeting is to stimulate research and interaction of researchers interested in all aspects of linear and multilinear algebra, matrix analysis and its applications. The conference is sponsored by the International Linear Algebra Society (ILAS) and Nova Southeastern University.

Keynote speaker: Richard Brualdi (University of Wisconsin-Madison).

Organizing Committee: Zhong-Zhi Bai (Chinese Academy of Sciences), Chi-Kwong Li (College of William and Mary), Bryan Shader (University of Wyoming), Hugo Woerdeman (Drexel University),

This section contains announcements of meetings and conferences of interest to some segment of the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. A complete list of meetings of the Society can be found on the last page of each issue.

An announcement will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers; a second announcement will be published only if there are changes or necessary additional information. Once an announcement has appeared, the event will be briefly noted in every third issue until it has been held and a reference will be given in parentheses to the month, year, and page of the issue in which the complete information appeared. Asterisks (*) mark those announcements containing new or revised information.

In general, announcements of meetings and conferences held in North America carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. Meetings held outside the North American area may carry more detailed information. In any case, if there is any application deadline with

respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences in the mathematical sciences should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to notices@ams.org or mathcal@ams.org.

In order to allow participants to arrange their travel plans, organizers of meetings are urged to submit information for these listings early enough to allow them to appear in more than one issue of the *Notices* prior to the meeting in question. To achieve this, listings should be received in Providence **eight months** prior to the scheduled date of the meeting.

The complete listing of the Mathematics Calendar will be published only in the September issue of the *Notices*. The March, June/July, and December issues will include, along with new announcements, references to any previously announced meetings and conferences occurring within the twelve-month period following the month of those issues. New information about meetings and conferences that will occur later than the twelve-month period will be announced once in full and will not be repeated until the date of the conference or meeting falls within the twelve-month period.

The Mathematics Calendar, as well as Meetings and Conferences of the AMS, is now available electronically through the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

Fuzhen Zhang (Nova Southeastern University) and Qingling Zhang (China Northeastern University).

Topic: A special issue, Matrix Analysis and Applications, of the *International J. of Information & Systems Sciences* will be devoted to the meeting. Paper submissions to the special issue are solicited.

Deadline: Registration deadline: November 1, 2006.

Information: Contact: zhang@nova.edu; <http://undergrad.nova.edu/mst/matrix/>.

April 2007

* 20–22 **Riviere-Fabes Symposium on Analysis and PDE**, University of Minnesota, Minneapolis, Minnesota.

Information: Program details and more information can be found at the meeting's website: http://www.math.umn.edu/conferences/riv_fabes/.

* 25–28 **Conference on Ordered Rings, Baton Rouge 2007 ("Ord007")**, Louisiana State University, Baton Rouge, Louisiana.

Topics: Partially and totally ordered rings and fields, f-rings, rings of continuous real-valued functions, spectra and representations, valuations, sums of squares, connections with logic and universal algebra, and applications to topology, real algebraic geometry (e.g., the Pierce-Birkhoff conjecture), etc.

Organizers: Charles N. Delzell, Louisiana State University; James J. Madden, Louisiana State University.

Information: <http://www.math.lsu.edu/~madden/Ord007>.

May 2007

* 15–20 **The 27th Annual Great Plains Operator Theory Symposium (GPOTS-2007)**, University of Nebraska, Lincoln, Nebraska.

Program: Invited plenary lectures and 20 minute contributed talks on Operator Algebras and Operator Theory. Conference starts with an evening reception on Tuesday, May 15, 2007, and ends around noon on Sunday, May 20, 2007.

Scientific Committee and Local Organizers: R. Curto (Iowa), M. Dadarlat (Purdue), K. Davidson (Waterloo), A. Donsig (Nebraska), R. Douglas (Texas A&M), C. Farthing (Nebraska), D. Larson (Texas A&M), J. Orr (Nebraska), D. Pitts (Nebraska).

Information: <http://www.math.unl.edu/pi/events/gpots07/>.

June 2007

* 14–16 **The XVth International Colloquium on Integrable Systems and Quantum symmetries**, Czech Technical University, Prague, Czech Republic.

Workshop topics: Quantum and classical integrable systems, Quantum groups, Yangians and their representations, Noncommutative geometry

Program: Ten (40 minute) talks scheduled for three morning sessions, further contributions (20 minute talks) presented during the afternoon sessions.

Deadline: Registration: March 31st, 2007.

Information: <http://kmlinux.fjfi.cvut.cz/intsystems/>.

July 2007

* 2–4 **The 2007 International Conference of Applied and Engineering Mathematics**, Imperial College London, London, U.K.

Deadlines: Draft Paper Submission Deadline: March 6, 2007. Camera-Ready papers & Pre-registration: March 30, 2007

Information (including list of topics to be covered): <http://www.iaeng.org/worldeng2007/ICAEM2007.html>.

* 22–27 **CIM/UC Summer School: Topics in Nonlinear PDEs**, Centro Internacional de Matemática (CIM), Coimbra, Portugal.

Program: The School will consist of four short courses of six hours each, and of short communications.

Speakers: Luis Caffarelli (University of Texas at Austin, USA), Charlie Elliott (University of Sussex, UK), Felix Otto (University of

Bonn, Germany) and Benoit Perthame (École Normale Supérieure, France).

Topics: Problems and methods involving free boundaries (L. Caffarelli); Critical state models in superconductivity (C. Elliott); Analysis of pattern formation in physical models (F. Otto); Nonlinear PDEs in Biology (B. Perthame).

Organizers: José Francisco Rodrigues (CMUC and University of Lisbon, Portugal) and José Miguel Urbano (CMUC and University of Coimbra, Portugal).

Deadlines: Applications for financial support are due on April 15, 2007.

Information: <http://www.cim.pt/pdes07>.

September 2007

* 4–6 **International Conference on Mathematical Biology 2007 (ICMB07)**, Universiti Putra Malaysia, Serdang, Malaysia.

Call for Papers: (<http://www.inform.upm.edu.my/icbm07/>). Prospective authors are invited to submit extended summaries of no more than four (4) pages including results, figures and references. Paper will be accepted only by electronic submission via email to icmb07@inform.upm.edu.my. Prospective authors are expected to present their paper at the conference. Authors without Internet access should contact us well before the submission deadline.

Submission Deadlines: Submission of extended summaries: January 15, 2007. Notification of acceptance: April 16, 2007. Submission of full paper: May 14, 2007.

Topics of Interest: Topics of interest for submission include, but are not limited to: Biofluids, cell biology, physiology, neurobiology and behaviour, development, ecology, population biology, genetics and evolution, epidemiology, immunology, molecular biology, DNA and protein structure and function, bio-informatics and biometrics.

Registration Fees: The conference fees are as follows: Participant: USD \$200.00. Accompanying person: USD \$50.00. Student: USD \$50.00.

Information: <http://www.inform.upm.edu.my/icbm07/>.