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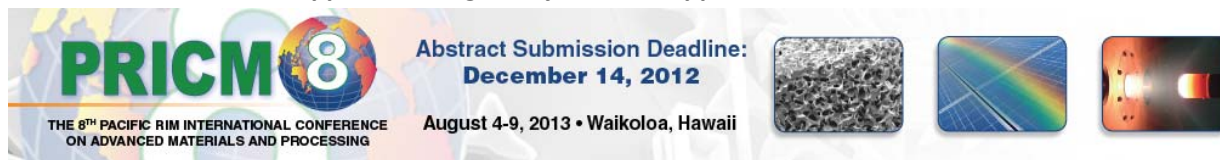
SIAM Unwrapped

News & announcements for the SIAM membership community

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November 2012

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Dear SIAM members,

We would like to extend our thanks to all those who helped us recognize and honor SIAM members for their contributions to the disciplines of applied mathematics and computational science by submitting nominations for the 2013 Class of SIAM Fellows.

Fellows will be announced March 29, 2013. Nominations are now open for the Class of 2014 at:

http://www.siam.org/prizes/fellows/index.php

Regards,

Karthika Muthukumaraswamy

Editor

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::: SIAM HQ UPDATE :::

Renew your membership

As the end of the year approaches, we would like to remind you to renew your membership for the upcoming year. Renewing your membership for 2013 now will ensure uninterrupted receipt of your SIAM publications, including *SIAM News*, *SIAM Review*, *Unwrapped*, and any SIAM journals to which you subscribe.

For more information, please visit:

http://www.siam.org/membership/individual/

How to Prepare an Effective Nomination

Each year, SIAM's prize program recognizes applied mathematicians and computational scientists who render significant research contributions and valuable service to the community. The range and number of nomination submissions are as crucial as the selection process in helping us honor the most deserving members. In order to help members prepare an effective nomination, SIAM's Major Awards Committee, chaired by Nick Higham, has prepared a document outlining recommendations for those submitting nominations for SIAM prizes. Among the recommendations is the suggestion that a few support letters with quality information about the nominee are preferable to a large number of emails simply stating support. There is plenty of other great advice.

View the entire document here:

http://www.siam.org/prizes/effective.php

Welcoming new EASIAM officers

The East Asia Section of SIAM (EASIAM) is happy to announce its newly-elected officers:

President: Ming-Chih Lai, National Chiao Tung University, Taiwan

Vice President: Yongwimon Wiriyawit Lenbury, Mahidol University, Thailand

Secretary: Weichung Wang, National Taiwan University

The officers will serve a two-year period from January 1, 2013 to December 31, 2014. For more information on the new officers, please visit:

http://connect.siam.org/?p=2711

There's still time to refer a member—and win an iPad!

Introduce your colleagues and friends to the world of benefits you enjoy with a SIAM membership. If you refer a colleague who ends up joining SIAM, you and your colleague will be entered into a contest to win either an iPad, a free SIAM membership, a SIAM book, or a SIAM conference registration of your choice. Tammy Kolda, who referred her Sandia National Labs colleague to join SIAM, recaps her reasons for doing so: "SIAM is a truly interdisciplinary society with members coming not only from across the academic spectrum but also from industry and government labs. SIAM also hosts a wide range of conferences and meetings that attract an increasingly diverse audience. In addition, it offers opportunities for career and leadership development such as serving on activity groups and program committees, organizing minisymposia, etc."

For details on the Member-Get-a-Member program, go to:

www.siam.org/membership/mgam.php

::: STUDENT NEWS & NOTES :::

Student travel funds for upcoming SIAM conferences

If you are a student traveling to the ACM-SIAM Symposium on Discrete Algorithms (SODA13), Analytic Algorithmics and Combinatorics (ANALCO13) or Algorithm Engineering and Experiments (ALENEX13), you may be eligible for travel funds, thanks to grants from IBM Research and Microsoft Corporation. Preference will be given to applicants presenting papers at workshops and minisymposia as well as to co-authors of papers. Students may apply for travel support in the amount of $650 plus free registration. The deadline for applications is December 10, 2012.

For information and instructions on how to apply, visit:

http://www.siam.org/meetings/da13/tsupport.php

Registration open for Moody's Mega Math Challenge

It's that time of year again: when high school students from all over the Eastern United States gather their teams and get ready to take on an issue facing the real world—with the power of math. Moody's Mega Math Challenge, an applied math contest organized by SIAM in partnership with The Moody's Foundation, which funds the contest, will take place March 2 and 3, 2013. A total of $115,000 in scholarships is up for grabs for the top teams. The Internet-based contest allows students the

opportunity to address real world issues with math modeling, problem-solving, and critical thinking skills. The goal of the Challenge is to motivate high school students toward further education and careers in the mathematical sciences. More information about the Challenge is available at the link below:

http://m3challenge.siam.org/

Call for proposals: 2014 Gene Golub SIAM Summer School

SIAM is calling for letters of intent for possible proposals of topics and organizers for the Gene Golub SIAM Summer School (G2S3) in 2014. The courses in the proposed two-week school for approximately 45 graduate students are expected to be at the research level, have some computational flavor, and cover topics not usually found in regular university courses, in addition to having an overall theme of current interest including lectures and exercises/project sessions. The deadline for letters of intent is January 31, 2013. The school will be held in the period between June-August 2014 ensuring that there is no conflict with SIAM Annual Meeting travel. Information about the summer school in 2013, an archive of prior summer schools, and the call for proposals for the 2014 G2S3 can be found at:
http://www.siam.org/students/g2s3/

::: PROFESSIONAL DEVELOPMENT:::

Check out the SIAM job board!

For students, those in their early careers, or for anyone looking for professional development advice, the SIAM Careers page is a great resource. View articles detailing various career tracks in applied mathematics and related fields, suggestions for acquiring internships, and counsel from seasoned professionals. The SIAM Job Board has the most current job listings in this specialized niche. You can sign up for alerts and announcements, and upload, edit and manage your resumés online. Interested individuals can set up a personal account on the job board by going to the link below:
http://jobs.siam.org/

::: PUBLISHING NEWS AND NOTES :::

New and improved SIAM Books

Linear and Nonlinear Inverse Problems with Practical Applications
Jennifer L. Mueller and Samuli Siltanen

Inverse problems arise in practical applications whenever there is a need to interpret indirect measurements. This book explains how to identify ill-posed inverse problems arising in practice and how to design computational solution methods for them; explains computational approaches in a hands-on fashion, with related codes available on a website; and serves as a convenient entry point to practical inversion. The book's nonlinear material combines the analytic-geometric research tradition and the

regularization-based school of thought in a fruitful manner, paving the way to new theorems and algorithms for nonlinear inverse problems. Furthermore, it is the only mathematical textbook with a thorough treatment of electrical impedance tomography, with sections suitable for beginning and experienced researchers in mathematics and engineering.

Additional information: http://www.ec-securehost.com/SIAM/CS10.html

2012 / xiv + 351 pages / Softcover / ISBN 978-1-611972-33-7
List Price $84.00 / SIAM Member Price $58.80 / Order Code CS10

Eigenvalues of Matrices, Revised Edition
Françoise Chatelin

Some unique features of this revised edition include the convergence of eigensolvers serving as the basis of the notion of the gap between invariant subspaces, coverage of the impact of the high nonnormality of the matrix on its eigenvalues, and the comprehensive nature of the material that moves beyond mathematical technicalities to the essential mean carried out by matrix eigenvalues. The author has added a new chapter that uncovers reasons why matrices are even more fundamental tools than vectors for the information processing that takes place during the dynamical evolution of systems. Some of these ideas appear in print for the first time.

Additional information: http://www.ec-securehost.com/SIAM/CL71.html

2012 / xlvi + 412 pages / Softcover / ISBN 978-1-611972-45-0
List Price $99.00 / SIAM Member Price $69.30 / Order Code CL71

::: UPDATES ON CONFERENCES & PRIZES :::

Conferences accepting registrations and submissions

The **ACM-SIAM Symposium on Discrete Algorithms** **(January 6-8, 2013), Analytic Algorithmics and Combinatorics (January 6, 2013) and Algorithm Engineering and Experiments (January 7, 2013)** being held in New Orleans, Louisiana, USA, are now open for registration.
Pre-registration deadline: Monday, December 3, 2012
https://www.siam.org/meetings/da13/regform.php

SIAM Conference on Applications of Dynamical Systems (DS13), May 19-23, 2013, Snowbird, Utah, USA
Abstract submissions for contributed and minisymposium speakers are due November 19, 2012.
http://www.siam.org/meetings/ds13/submissions.php

SIAM Conference on Mathematical Aspects of Materials Science (MS13), June 9-12, 2013, Philadelphia, Pennsylvania, USA
Submission Deadlines:

Poster Submissions and abstracts for minisymposium speakers: January 15, 2013 (*Contributed Lectures are not being solicited for MS13*.)
http://www.siam.org/meetings/ms13/submissions.php

SIAM Conference on the Mathematical and Computational Issues in the Geosciences (GS13), June 17-20, 2013, University of Padova, Italy
Submission Deadlines:
Minisymposium proposals: November 19, 2012
Abstracts for contributed and minisymposium speakers: December 20, 2012
http://www.siam.org/meetings/gs13/submissions.php

SIAM Conference on Control and Its Applications (CT13), July 8-10, 2013, San Diego, California, USA
Submission Deadlines:
Minisymposium proposals: January 7, 2013
Abstracts for contributed and minisymposium speakers: January 28, 2013:
Full Paper Submission (Optional) for Consideration in Proceedings: January 28, 2013
For full information on how to be considered for the proceeding for CT13, be sure to consult the submissions page:
http://www.siam.org/meetings/ct13/submissions.php

2013 SIAM Annual Meeting (AN13) , July 8-12, 2013, San Diego, California, USA
Submission Deadlines:
Minisymposium proposals: January 7, 2013
Abstracts for contributed and minisymposium speakers: January 28, 2013
http://www.siam.org/meetings/an13/submissions.php

SIAM Conference on Applied Algebraic Geometry (AG13) , August 1-4, 2013, Fort Collins, Colorado, USA
Submission Deadlines:
Minisymposium proposals: December 17, 2012
Abstracts for contributed and minisymposium speakers: February 25, 2013
http://www.siam.org/meetings/ag13/submissions.php

Open calls for prize nominations

For the following prizes, nominations are due November 15, 2012

Only three days left to submit nominations!

SIAG/Control and Systems Theory Prize

Germund Dahlquist Prize

Nominations are due February 15, 2013 for the SIAG/CST Best SICON Paper Prize.

If your email does not support the hyperlink features, please copy any of the above URLs and paste them into your Internet browser.

Questions/comments/suggestions? Send them to karthika@siam.org.

Society for Industrial and Applied Mathematics (SIAM)
3600 Market Street, 6th Floor
Philadelphia, PA
19104-2688 USA
+1 215-382-9800
+1 215-386-7999 fax
www.siam.org

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