SIAM Unwrapped – August 2014

News & announcements for the SIAM membership community

Dear SIAM members,

Have a say in who represents SIAM and makes decisions on your behalf! Vote in the SIAM general elections to be held next month. Read more details below.
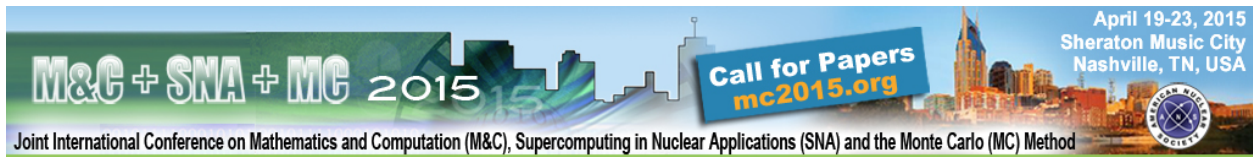
Also in this issue, read a recap of the SIAM Annual Meeting held in Chicago last month.

Regards,

Karthika Muthukumaraswamy

Editor

This issue of SIAM Unwrapped is brought to you with the support of:

Contents:

SIAM HQ UPDATE
- Vote in the SIAM Elections!
- Annual reports outline progress
- *SIAM News* gets a makeover!

ANNUAL MEETING RECAP
- SIAM Annual Meeting: in words, pictures & slides
- SIAM Fellows and prize recipients recognized

PUBLIC AWARENESS
- Nugget Bytes: Math and movement
- Latest from SIAM Blogs

PUBLISHING NEWS & NOTES
- New SIAM books

- *Lectures on Stochastic Programming: Modeling and Theory, Second Edition*
- *Iterative Methods for Linear Systems: Theory and Applications*

UPDATES ON CONFERENCES & PRIZES

- Child Care Grants for CSE15
- Be part of ICIAM 2015!
- SIAM conference registrations & submissions
- Nominate for the George Pólya Prize for Mathematical Exposition!
- Prize nomination deadlines

::: SIAM HQ UPDATE :::

Vote in the SIAM Elections!

SIAM will elect three members to serve on the SIAM Board of Trustees and four members to serve on the SIAM Council this fall. Be sure to make your voice heard on who will make important decisions for the organization by voting! Take a few minutes to read the candidate profiles and statements here: http://www.siam.org/election/election_info.php. On September 2, look for an e-mail message from the "SIAM Election Coordinator" (support@votenet.com) with your unique voting credentials and link to the voting site.   To ensure the message delivers to your inbox, you may wish to "white list" your spam filter to accept the above e-mail address (support@votenet.com). For anyone who has opted out of receiving e-mails, a paper ballot will be mailed to your address of record. Questions regarding the election process can be directed to SIAM Executive Director James Crowley, c/o the SIAM Election Manager at election@siam.org.

Annual reports outline progress

SIAM grows and changes each year, in terms of membership, revenue, books and journals, prize funds, student travel awards, activity groups, student chapters and geographic reach. Read details on SIAM's progress in the past year by viewing the annual and financial reports presented at the Annual Meeting last month.

***SIAM News* gets a makeover!**

The newsjournal of the applied mathematics community has a newly revamped website! The online version features all the editorial content that appears in the print version of *SIAM News* in a modern web-based format. Readers now have a choice between reading the newsletter in the paper format, or viewing it completely online. The new site is accessible on any platform from a desktop computer to a mobile device.

View the brand new website:
http://sinews.siam.org/

::: ANNUAL MEETING RECAP:::

SIAM Annual Meeting: in words, pictures & slides

The 2014 SIAM Annual Meeting featured talks by eminent mathematicians and scientists, cutting edge research, exciting workshops and tutorials, and recognition of distinguished members in the field. In case you missed it, you can view presentations from select sessions of the Annual Meeting on *SIAM Presents…Featured Lectures from Our Archives*: http://www.siam.org/meetings/presents.php

Please go to the direct link to view the sessions captured. You do not need to login to view presentations, though registering will allow you to track the presentations you access. Audio/slides can be viewed by selecting "Invited Speakers", "Prize speakers" and "Minisymposia".

For a more lighter-veined overview, take a look at the AN14 Twitter conversation at this Storify link, or view photos on our Facebook album. Also read a recap by a SIAM student chapter representative on the SIAM Student Blog:
http://connect.siam.org/an14-an-amat-undergraduates-experience/

Stay tuned for video clips, including Block Community Lecturer Sep Kamvar's talk and interview, from the Annual Meeting soon to be posted on our YouTube channel.

SIAM Fellows and prize recipients recognized

The 2014 Class of SIAM Fellows was recognized at the Prizes and Awards Luncheon at the Annual Meeting. Read more about all 32 distinguished members here:

http://connect.siam.org/announcing-the-2014-class-of-siam-fellows/

Recipients of major SIAM prizes, including The John von Neumann Lecture; The AWM-SIAM Sonia Kovalevsky Lecture; the Julian Cole Lectureship; Richard C. DiPrima Prize; George Pólya Prize; W. T. and Idalia Reid Prize in Mathematics Lecture; the SIAM Prize for Distinguished Service to the Profession; and SIAM Outstanding Paper Prizes received their awards from SIAM President Irene Fonseca. In addition, student winners of the SIAM Award in the Mathematical Contest in Modeling and the SIAM Student Paper Prize were presented with awards.

Read more details about the I. E. Block Lecture and The John von Neumann Lecture. View the list of all prize recipients here:

http://www.siam.org/meetings/an14/prizes.php

::: PUBLIC AWARENESS :::

Nugget Bytes: Math and movement

Math helps study transmission and movement, be it of cells, organisms, or disease. The latest Nugget Bytes shed light on mathematical models that are used to analyze cell migration in cancer and tumor growth, dispersal of organisms leading to patterns in population distribution, and disease dynamics of the Bluetongue virus. The first paper describes cell invasion through directional outgrowth or movement in the context of malignant tumors, in particular, melanoma or skin cancer. In the paper on species dispersal, authors propose a continuous-time and continuous-space reaction diffusion model where species move upward along their fitness gradients. The final paper, on Bluetongue virus, models disease persistence of the virus using a system of several delay differential equations.

Read the Nugget Bytes!
http://connect.siam.org/using-math-to-analyze-movement-of-cells-organisms-and-disease/

Latest from SIAM Blogs
SIAM Blogs (blogs.siam.org) boasts a wide range of content, from the latest developments in the math community to professional development advice. Recent posts have featured a video chat with MIT's Retsef Levi about healthcare optimization and some helpful recommendations for editors from Des Higham. You can also expect new posts in the wake of the Annual Meeting.

If you want to contribute a post about any topic of relevance to the applied math and computational science world, send your questions or submissions to blogs@siam.org.

::: PUBLISHING NEWS & NOTES :::

New SIAM Books

Lectures on Stochastic Programming: Modeling and Theory, Second Edition
Alexander Shapiro, Darinka Dentcheva, and Andrzej Ruszczński

Optimization problems involving stochastic models occur in almost all areas of science and engineering, such as telecommunications, medicine, and finance. Their existence compels a need for rigorous ways of formulating, analyzing, and solving such problems. This book focuses on optimization problems involving uncertain parameters and covers the theoretical foundations and recent advances in areas where stochastic models are available.

Additional information: http://bookstore.siam.org/mo16

2014 / xviii + 494 pages / hardcover / ISBN: 978-1-611973-42-6 / List Price $125.00 / SIAM Member Price $87.50 / **Order Code MO16**

Iterative Methods for Linear Systems: Theory and Applications
Maxim A. Olshanskii and Eugene E. Tyrtyshnikov

Iterative Methods for Linear Systems offers a mathematically rigorous introduction to fundamental iterative methods for systems of linear algebraic equations. The book distinguishes itself from other texts on the topic by providing a straightforward yet comprehensive analysis of the Krylov subspace methods, approaching the development and analysis of algorithms from various algorithmic and

mathematical perspectives, and going beyond the standard description of iterative methods by connecting them in a natural way to the idea of preconditioning.

Additional information: http://bookstore.siam.org/ot138

2014 / xvi + 247 pages / Softcover / ISBN: 978-1-611973-45-7/ List Price $85.00 / SIAM Member Price $59.50 / **Order Code OT138**

::: UPDATES ON CONFERENCES & PRIZES :::

Child Care Grants for CSE15
SIAM is offering up to $250 per family for attendees who bring children to the 2015 Conference on Computational Science and Engineering being held in Salt Lake City, Utah, in March 2015. For more information and a link to the application form, please visit:
http://www.siam.org/meetings/cse15/childcare.php
 The deadline for applications is January 16, 2015.

Be a part of ICIAM 2015!
The 8th International Congress on Industrial and Applied Mathematics (ICIAM 2015) will be held August 10-14, 2015 in Beijing, China. There is still plenty of time to submit to the meeting. Minisymposia accepted for early decision will be announced on August 30, 2014, but the submission deadline for minisymposia is September 30th. The contributed paper site opened on July 30, 2014 and submissions are being accepted until December 30th, with announcement of early decisions on October 30th. Poster submissions are being accepted until April 30, 2015. Submission information can be found at http://www.iciam2015.cn/Submissions.html.

SIAM conference registrations & submissions

Analytic Algorithmics and Combinatorics (ANALCO15), January 4, 2015, San Diego, California, USA
        Extended abstracts deadline extended: August 13, 2014
Algorithm Engineering and Experiments (ALENEX15), January 5, 2015, San Diego, California, USA
        Extended abstracts deadline: September 22, 2014
SIAM Conference on Computational Science and Engineering (CSE15), March 14-18, 2015, Salt Lake City, Utah, USA
        Minisymposium proposal submission deadline extended: August 11, 2014
        Abstracts for contributed and minisymposium speakers submission deadline: August 21, 2014
        Abstracts for contributed posters and minisymposterium posters (thematic groups) submission
        deadline: August 21, 2014
SIAM International Conference on Data Mining (SDM15), April 30-May 2, 2015, Vancouver, British Columbia, Canada
        Abstract submission deadline: October 5, 2014
        Paper submission deadline: October 12, 2014
        Workshop proposal deadline: October 5, 2014

Tutorial proposal deadline: October 12, 2014

SIAM Conference on Applications of Dynamical Systems (DS15), May 17-21, 2015, Snowbird, Utah, USA

Minisymposium proposals submission deadline: October 20, 2014

Abstracts for minisymposia, contributed lectures and poster submissions deadline: November 17, 2014

The 13th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA13), June 1-5, 2015, Gaithersburg, MD

Minisymposium proposals submission deadline: November 3, 2014

Abstracts for contributed and minisymposium speakers submissions deadline: February 2, 2015

SIAM Conference on Control and Its Applications (CT15), July 8-10, 2015, Maison de la Mutualité, Paris, France

Minisymposium proposals submission deadline: January 12, 201

Abstracts for contributed and minisymposium speakers submissions deadline: January 21, 2015

Full Paper for consideration in Proceedings: January 21, 2015

Nominate for the George Pólya Prize for Mathematical Exposition!

The George Pólya Prize for Mathematical Exposition, established in 2013, is awarded every two years to an outstanding expositor of the mathematical sciences. The prize may be given for a specific work or for the cumulative impact of multiple expository works that communicate mathematics effectively. The nature of the work may range from popular accounts of mathematics and mathematical discovery to pedagogy to systematic organization of mathematical knowledge.

Find out more about the award: http://www.siam.org/prizes/sponsored/polyaexp.php

Nominate now! http://www.siam.org/prizes/nominations/nom_polyaexp.php

Prize nomination deadlines

The John von Neumann Lecture: September 15, 2014

Ralph E. Kleinman Prize: October 15, 2014

George Pólya Prize for Mathematical Exposition: October 15, 2014

W. T. and Idalia Reid Prize: October 15, 2014

AWM-SIAM Sonia Kovalevsky Lecture: November 1, 2014

Germund Dahlquist Prize: November 15, 2014

For the complete list of the call for nominations, please visit:

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

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.