

# iGroup

## SIAM JOURNALS

Your link to the world of applied mathematics



A grid of SIAM journal covers. The top row includes 'SIAM REVIEW' and a circular callout for 'INFORMATION & 2018 PRICES'. The grid contains various journals such as 'SIAM Journal on APPLIED ALGEBRA and GEOMETRY', 'SIAM Journal on APPLIED DYNAMICAL SYSTEMS', 'SIAM Journal on APPLIED MATHEMATICS', 'SIAM Journal on MATRIX ANALYSIS and APPLICATIONS', 'SIAM Journal on NUMERICAL ANALYSIS', 'SIAM Journal on OPTIMIZATION', 'SIAM Journal on SCIENTIFIC COMPUTING', 'SIAM/ASA Journal on UNCERTAINTY QUANTIFICATION', 'MULTISCALE MODELING & SIMULATION', and 'THEORY OF PROBABILITY AND ITS APPLICATIONS'.



安徽大學  
Anhui University

# SIAM (工业和应用数学学会) 产品培训

刘一帆  
iGroup中国  
2018年10月



siam. SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS

## Contents

- 一. SIAM 出版社简介
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- 七. iGroup提供的售后服务

## 一. 关于SIAM 出版社

### SIAM (Society for Industry and Applied Mathematics)

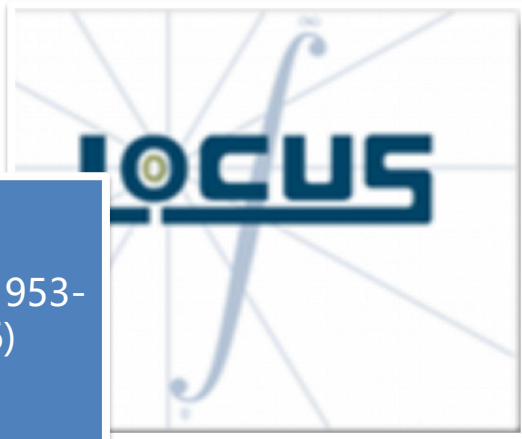
- 工业和应用数学学会 (SIAM) 于二十世纪五十年代前期在美国成立，是一个以促进**应用和计算数学**的研究、发展、应用为目的的协会。
- SIAM拥有14,000+个人会员，由来自世界各国的应用和计算数学家、计算机科学家、工程师、统计学家和数学教育者组成。
- SIAM拥有500多个机构会员，由大学，公司和研究机构组成。
- SIAM以出版高水准和颇具声誉的期刊而自豪。是公认的数学专业领域里最可靠的知识来源。

## 二. SIAM数据库涵盖内容

期刊17种  
(1997-至今)



LOCUS(1953-1996)



SIAM电子图书





研究领域	覆盖内容
分析和偏微分方程	包括微分方程的分析，尤指在自然科学中应用的微分方程的分析，如流体动力学、材料科学或数学物理。分析和偏微分方程也包括像变分学，谐波/小波分析，和经典分析的主题
应用几何	应用几何、代数几何和几何设计，涵盖了生物、编码理论、复杂性理论、计算机图形学、计算机视觉、密码学、博弈论和经济学以及机器人等相关领域的数学和计算。应用几何还包括在为各种工程应用生成和处理几何信息时出现的数学和计算问题。
应用数学教育	包括促进应用和计算数学的教育程序、课程和资源的发展和实践的主题。这些主题包括建模、计算和应用数学中的教育问题。应用数学教育还包括对创新、实践、改进、教师发展和教学的兴趣。
经典应用数学	涵盖了流体力学、固体力学、弹性力学、电磁理论和光学、材料科学、数学生物学、线性和非线性波传播、逆问题、非线性动力学和随机过程等物理、工程、金融和生命科学中应用感兴趣的数学模型和方法。

研究领域	覆盖内容
计算科学与数值分析	科学计算的方法和算法，涵盖了广泛的应用，包括高性能计算和数值分析的软件和环境。
控制与系统理论	控制理论的数学和应用，以及与连续或离散时间的确定性或随机系统动力学有关的优化理论部分;复杂生物、物理和工程系统及其控制的建模、估计和近似。
数据科学	涵盖数据科学中的数学和计算方法,包括机器学习和数据挖掘与其他关键领域,如通常交织在一起的统计,计算机科学,网络科学和信号处理中,所有数据科学以及数学方法在数据/信息处理中的应用科学和工程问题。
离散数学与理论计算科学	代数、拓扑、几何、概率、分析和逻辑

### 三. SIAM期刊介绍

NO.	期刊名称	期刊名称(中文)	起始年限	影响因子 (JCR2017)
1	Multiscale Modeling & Simulation (MMS)	多尺度建模和仿真	2003	2.277
2	SIAM Journal on Applied Dynamical Systems (SIADS)	SIAM期刊之动力系统的应用	2002	1.486
3	<b>SIAM Journal on Applied Mathematics(SIAP)</b>	<b>SIAM期刊之应用数学</b>	<b>1953</b>	<b>1.698</b>
4	SIAM Journal on Computing(SICOMP)	SIAM期刊之计算	1972	0.902
5	SIAM Journal on Control and Optimization (SICON)	SIAM期刊之控制和优化	1962	1.594
6	SIAM Journal on Discrete Mathematics (SIDMA)	SIAM期刊之离散数学	1988	0.717
7	SIAM Journal on Imaging Sciences(SIIMS)	SIAM期刊之成像科学	2008	2.361
8	SIAM Journal on Mathematical Analysis (SIMA)	SIAM期刊之数学分析	1970	1.528
9	SIAM Journal on Matrix Analysis and Applications(SIMAX)	SIAM期刊之矩阵分析和应用	1980	1.682
10	SIAM Journal on Numerical Analysis (SINUM)	SIAM期刊之数字分析	1964	2.047
11	SIAM Journal on Optimization (SIOPT)	SIAM期刊之优化	1991	2.183
12	SIAM Journal on Scientific Computing (SISC)	SIAM期刊之科学计算	1980	2.046
13	SIAM Review (SIREV)	SIAM期刊之评论	1959	4.886
14	Theory of Probability and Its Applications(TVP)	概率理论及其应用	1956	0.378
15	SIAM Journal on Financial Mathematics(SIFIN)	SIAM期刊之金融数学	2010	0.961
16	SIAM/ASA Journal on Uncertainty Quantification	SIAM/ASA期刊之不确定性量化	2013	1.370
17	SIAM Journal on Applied Algebra and Geometry (SIAGA)	SIAM期刊之应用代数与几何学	2017	

## SIAM 期刊品质

- SIAM出版的17本期刊，均是同行评审期刊，除了一本2017新刊，其他期刊均被2017 JCR收录，6本刊影响因子大于2
- SIAM Review 在“应用数学”领域252种被JCR收录的期刊中排名第1



- 在“应用数学和计算科学”领域252种期刊的影响因子排名中，SIAM的期刊占据了前50名中的8席

数据来源：2017JCR



## SIAM高影响因子期刊研究领域介绍

期刊名称	期刊中文名称	涵盖领域简介
SIAM Review (SIREV)	SIAM期刊之评论	提供广泛科学研究领域内的一体化的最新评论文章。主要集中在应用数学、计算数学和科学计算方面。
SIAM Journal on Imaging Sciences(SIIMS)	SIAM期刊之成像科学	探讨图像形成和处理、图像分析、图像解释和理解、计算机图形学和可视化技术应用到科学、医药和工程等领域的重要研究。
SIAM Journal on Optimization (SIOPT)	SIAM期刊之优化	探讨优化理论及实践的相关研究，包括线性和二次规划、凸规划、非线性规划、互补问题等等。较侧重最优化理论、运算法则、软件数值计算实践与应用或者以上学科之间的交叉学科。
SIAM Journal on Numerical Analysis (SINUM)	SIAM期刊之数字分析	本期刊主要收录了有关数理方法发展及分析的文章，刊载数值分析方法的研究论文，主要讨论收敛、稳定性及数值计算的复杂性等内容。另外还包括代数学数值分析结果、数值运算行为及其应用等方面的分析和研究。
SIAM Journal on Scientific Computing (SISC)	SIAM期刊之科学计算	主要刊载用数值方法来解决科学运算问题的研究性文章，如科学研究与工程项目中出现的计算问题
Multiscale Modeling & Simulation (MMS)	多尺度建模和仿真	期刊中所收录的研究性文章，主要讨论基本建模的方法和预测多尺度现象，重点阐述建模与分析、建模与仿真模拟、数学及其应用的相互关系。本刊弥补了数学与应用方面的缺陷，为各学科之间，诸如生物学、化学、工程学、环境科学等搭建了一个相互沟通和交流的平台。



## 《SIAM Review》

### 《SIAM期刊之评论》

- 《SIAM Review》是SIAM的**旗舰期刊**，创刊于1959年，每年出版4期
- 2017年IF: 4.886
- 根据最新JCR报告，在应用数学领域252本期刊中排名第1
- 《SIAM Review》，其收录的文章内容涉及广泛，是公认的“应用数学”领域里最权威的评论期刊

## SIAM Review 内容介绍

《SIAM Review》的内容由5部分组成：

Survey and  
Review

Problems and  
Techniques

SIGEST

Education

Book Reviews



## SIAM LOCUS

SIAM LOCUS提供所有期刊1953-1996年出版的所有期刊，包含14,000+篇全文，约285,000+页文献





## SIAM电子图书

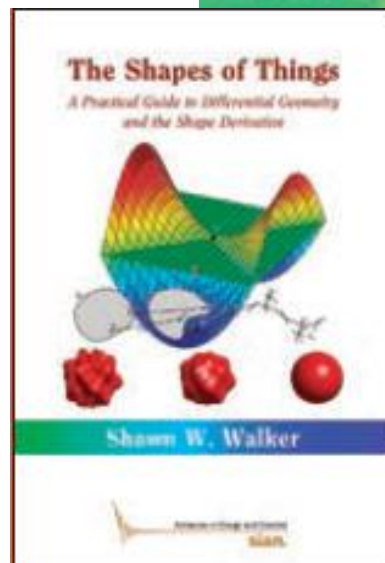
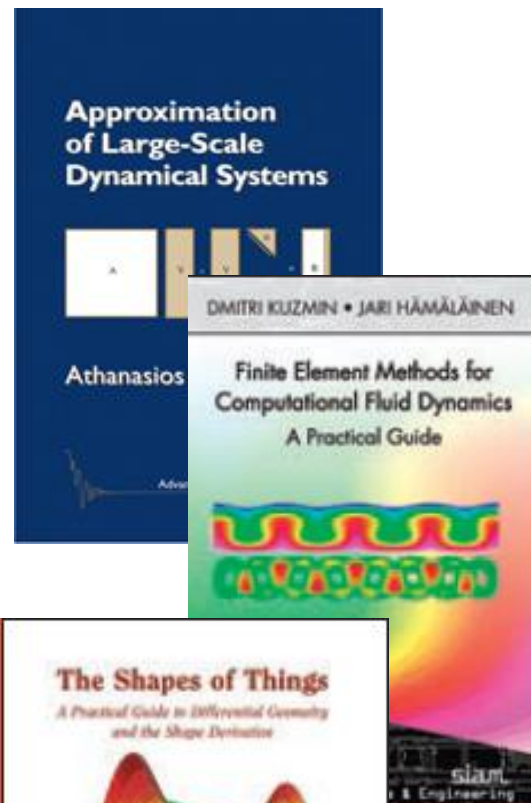
SIAM电子书图书馆目前包含**470多**本书，分为15个系列，37个学科范围。

- [Advances in Design and Control](#) ↵  
设计与控制新进展↵
- [ASA-SIAM Series on Statistics and Applied Mathematics](#) ↵  
美国统计协会与工业和应用数学学会统计学与应用概率论↵
- [CBMS-NSF Regional Conference Series in Applied Mathematics](#) ↵  
美国数学科学联合委员会-国家自然科学基金会应用数学地区会议系列↵
- [Classics in Applied Mathematics](#) ↵  
应用数学经典系列↵
- [Computational Science & Engineering](#) ↵  
计算科学与工程↵
- [Discrete Mathematics and Applications](#) ↵  
离散数学和应用↵
- [Frontiers in Applied Mathematics](#) ↵  
应用数学前沿↵
- [Fundamentals of Algorithms](#) ↵  
算法基本原理↵
- [Mathematical Modeling and Computation](#) ↵  
数学建模和计算↵
- [Mathematics in Industry](#) ↵  
工业数学↵
- [MOS-SIAM Series on Optimization](#) ↵  
数学优化学会-工业与应用数学学会之优化系列↵
- [Other Titles in Applied Mathematics](#) ↵  
应用数学的其他内容↵
- [Studies in Applied and Numerical Mathematics](#) ↵  
应用和计算数学研究↵
- [Software, Environments and Tools](#) ↵  
软件、环境和工具↵
- [SIAM Spotlights](#) ↵  
(SIAM 聚焦) ↵



### SIAM电子书平台特点:

- 通用: PDF格式文件, 在各种浏览器和电脑上都可阅读
- 方便: 可按章节阅读, 也可按关键词和章节标题搜索
- 全面: 与期刊使用同一平台, 实现期刊、过刊、电子书一站检索



## 四. SIAM 数据库访问平台

<https://epubs.siam.org/journals>

The screenshot shows the SIAM website interface. At the top, the SIAM logo and "Society for Industrial and Applied Mathematics" are displayed. Navigation links include Home, Journals, E-books, For Authors, Subscription Info, Interactive Features, Journal Citations, and Contact Us. A search bar is present with options for Keyword, Citation, DOI/ISSN, and Advanced Search. Below the navigation, the "SIAM Journals Online" section features a grid of journal covers. The "e-books" section includes a description of SIAM's book collection and a "Featured Books" section highlighting "Applications to Regular and Bang-Bang Control".

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Sun, H., Xu, H., Meskarian, R., Wang, Y.  
Level function methods and cutting-plane methods have been recently proposed to solve stochastic programs with stochast...  
SIAM J. Optim. 23, 602 (2013)

**On Directional Metric Subregularity and Second-Order Optimality Conditions for a Class of Nonsmooth Mathematical Programs**  
Gfrerer, H.  
We study infinite dimensional optimization problems where the constraint

**Featured Books**

**Applications to Regular and Bang-Bang Control**  
This book is devoted to the theory and applications of second-order necessary and sufficient optimality conditions in the calculus of variations and optimal control.  
[Read More](#)

## 1. 期刊浏览

The screenshot shows the SIAM website's navigation menu and a list of journals. A red callout box with the text "浏览所有现刊" (Browse all current journals) points to the "Journals" menu item. The "Journals" menu is expanded, showing a list of journals including Locus, Multiscale Modeling & Simulation, SIAM J. on Applied Dynamical Systems, SIAM J. on Applied Mathematics, SIAM J. on Computing, SIAM J. on Control and Optimization, SIAM J. on Discrete Mathematics, SIAM J. on Financial Mathematics, SIAM J. on Imaging Sciences, SIAM J. on Mathematical Analysis, SIAM J. on Matrix Analysis and Applications, SIAM J. on Numerical Analysis, SIAM J. on Optimization, SIAM J. on Scientific Computing, and SIAM/ASA J. on Uncertainty Quantification. The main content area features a "siam e-books" banner, a "Featured Books" section with a book cover for "Algebraic and Geometric Ideas in the Theory of Discrete Optimization", and a "Recent Book Titles" section with a book cover for "A Primer on Mathematical Models in Biology".

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**Journals**

- Locus
- Multiscale Modeling & Simulation
- SIAM J. on Applied Dynamical Systems
- SIAM J. on Applied Mathematics
- SIAM J. on Computing
- SIAM J. on Control and Optimization
- SIAM J. on Discrete Mathematics
- SIAM J. on Financial Mathematics
- SIAM J. on Imaging Sciences
- SIAM J. on Mathematical Analysis
- SIAM J. on Matrix Analysis and Applications
- SIAM J. on Numerical Analysis
- SIAM J. on Optimization
- SIAM J. on Scientific Computing
- SIAM/ASA J. on Uncertainty Quantification

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**Algebraic and Geometric Ideas in the Theory of Discrete Optimization**

This book offers several research technologies not yet well known among practitioners of discrete optimization, minimizes prerequisites for learning these methods, and provides a transition from linear discrete optimization to nonlinear discrete optimization.

[Read More](#)

**Recent Book Titles**

**A Primer on Mathematical Models in Biology**  
Other Titles in Applied Mathematics

*For all your information needs*



## 2. SIAM期刊主页

SIAM Review

浏览所有卷期

最新一期内容

Search Issue |  RSS  
Previous Issue

### Browse Volumes

Year Range:	2010-Current
Volume 58	2016
Issue 3   2016   pp. 375-599	
Issue 2   2016   pp. 175-374	
Issue 1   2016   pp. 1-173	
Volume 57	2015
Volume 56	2014
Volume 55	2013
Volume 54	2012
Volume 53	2011
Volume 52	2010

Volume 58, Issue 3, pp. 375-599

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Select All

[Survey and Review](#)



[Desmond J. Higham](#)

SIAM Rev. 58-3 (2016), pp. 375-375

<http://dx.doi.org/10.1137/16N974139>

[Abstract](#) | [PDF \(25 KB\)](#)

+ [Show Abstract](#)

## 3. 浏览SIAM期刊最新一期

当前卷期内检索

### SIAM Review

Browse Volumes	
Year Range:	2010-Current
Volume 58	2016
Issue 3   2016   pp. 375-599	
Issue 2   2016   pp. 175-374	
Issue 1   2016   pp. 1-173	
Volume 57	2015
Volume 56	2014
Volume 55	2013
Volume 54	2012
Volume 53	2011
Volume 52	2010

2016

Volume 58, Issue 3, pp. 375-599

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Select All

[Survey and Review](#)



[Desmond J. Higham](#)

SIAM Rev. 58-3 (2016), pp. 375-375

<http://dx.doi.org/10.1137/16N97>

[Abstract](#) | [PDF \(25 KB\)](#)

+ [Show Abstract](#)

摘要、全文  
(PDF)



## 4. 检索功能

The screenshot shows the SIAM website search interface. At the top, there is a search bar with a dropdown menu showing options: All Content, All Journals, All Books, All Proceedings, and This Journal. A red box labeled "高级检索" (Advanced Search) points to the search bar. Another red box labeled "简单检索 (如输入 'matrix') " (Simple Search (e.g., input 'matrix')) points to the search bar. Below the search bar, there are navigation tabs: Home, Journals, E-books, Proceedings, For Authors, Subscriptions, Interactive Features, Journal Citations, and Contact Us. The main content area displays "SIAM Review" and "Volume 58, Issue 3, pp. 375-599". A red box labeled "高级检索" (Advanced Search) also points to the search bar. The page includes a "Browse Volumes" sidebar, a "Full Issue PDF" link, and a list of articles with a "Survey and Review" article highlighted.

Simple Search (如输入 "matrix" )

高级检索

keyword Citation DOI/ISSN Advanced Search

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### SIAM Review

2016

Volume 58, Issue 3, pp. 375-599

Full Issue PDF

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Select All

Survey and Review

Desmond J. Higham

SIAM Rev. 58-3 (2016), pp. 375-375

<http://dx.doi.org/10.1137/16N974139>

Search Issue | RSS | Previous Issue

## 5. 检索结果

**Search Criteria** [New Search](#)

Search Terms:  Anywhere **二次检索**

20 results/page 1 2 3 4 5 6 7 8 9 10 11 ...

Results: 1-20 of 31014 **检索结果 1-20 of 31014**

Relevancy ▾

View Abstracts | Add to Favorites | Email | Download to Citation Manager | Track Citations

Search for "Anywhere: matrix"

Select All

**Inflation Matrices and ZME-Matrices that Commute with a Permutation Matrix** **点击进入**

Jeffrey L. Stuart  
SIAM Journal on Matrix Analysis and Applications 1988, Vol. 9, No. 1, pp. 1-10  
Abstract | References | PDF (1379 KB)

+ Show Abstract

**Recognizing Weakly Stable Matrices**

Hans Schneider, and Sergei Sergeev  
Control and Optimization 2012, Vol. 50, No. 5, pp. 3029-3051  
Abstract | References | PDF (355 KB)

**Matrices That Generate All Matrices with Positive Determinant**

J. D. Olesky, and P. van den Driessche  
SIAM Journal on Matrix Analysis and Applications 2003, Vol. 25, No. 1, pp. 285-294  
Abstract | References | PDF (152 KB)

**Search Filter**

You searched for: Anywhere: matrix

Filters Applied: None

**Publication**

- SIAM Journal on Scientific Computing (3544)
- SIAM Journal on Numerical Analysis (3482)
- SIAM Journal on Control and Optimization (2905)
- SIAM Journal on Applied Mathematics (2663)
- SIAM Journal on Matrix Analysis and Applications (2442)

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SIAM Journal on Matrix Analysis and Applications

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Volume 9, Issue 3

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Abstract | References | PDF | Cited By

SIAM. *J. Matrix Anal. & Appl.*, 9(3), 408–418. (11 pages)

### Inflation Matrices and ZME-Matrices that Commute with a Permutation Matrix

Jeffrey L. Stuart

DOI:10.1137/0609036

Centrosymmetric matrices are matrices that commute with the permutation matrix  $J$ , the matrix with ones on its cross-diagonal. This paper generalizes the concept of  $P$ -commutative matrices and considers the properties of matrices that commute with an  $n \times n$  permutation matrix  $P$ , the  $P$ -commutative matrices. In particular, it focuses on two classes of matrices: inflation matrices and SZMES-matrices. The  $P$ -commutative inflators is determined, and then this is used to determine the  $P$ -commutative SZMES-matrices. Centrosymmetric matrices in these classes are presented as a special case.

Copyright © 1988 © Society for Industrial and Applied Mathematics

Permalink: <http://dx.doi.org/10.1137/0609036>

#### Cited by

(2017) Algorithms for solving the inverse problem associated with  $\langle \text{mml:math altimg="si33.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xsi="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/dtd" xmlns:xlink="http://www.w3.org$

#### Related Databases

Web of Science

View this record on Web of Science

#### Article Data

History

Submitted: 08 December 1986  
Accepted: 21 December 1987  
Published online: 02 August 2006

Keywords

centrosymmetric matrix,  $P$ -commutative matrix, inflation matrix, SZMES-matrix

#### AMS Subject Headings

15A27, 15A48, 15A57

#### Publication Data

ISSN (print): 0895-4798  
ISSN (online): 1095-7162

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#### Session History

Recently Searched

- Anywhere: matrix (31014)
- [Anywhere: matrix] AND [Publication: SIAM Review] (2401)

## 五. 如何投稿于SIAM?

进入投稿前的资料准备:

1. 所有作者的相关信息
  - First and last names (全名)
  - Postal addresses (邮编)
  - Work telephone numbers (工作电话)
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#### ALENEX

January 7-8, 2018 · Astor Crowne Plaza, New Orleans, Louisiana, USA

#### ANALCO

January 8-9, 2018 · Astor Crowne Plaza, New Orleans, Louisiana, USA

#### ACM-SIAM Symposium on DISCRETE ALGORITHMS (SODA18)

January 7-10, 2018, Astor Crowne Plaza, New Orleans, Louisiana, USA

Deadline for:

Space reservation for final program:	November 13, 2017
Registration Inserts:	November 27, 2017
Tabletop/Combined Exhibit Contracts:	December 4, 2017
Expected Attendance:	415 - 475

#### SIAM Conference on PARALLEL PROCESSING for SCIENTIFIC COMPUTING (PP18)

March 7-10, 2018, Waseda University, Tokyo, Japan

Deadline for:

Space reservation for final program:	December 20, 2017
Expected Attendance:	450 - 500

*The conference logistics are being managed local to the conference site.*

#### SIAM Conference on UNCERTAINTY QUANTIFICATION (UQ18)

April 16-19, 2018, Hyatt Regency Orange County, Garden Grove, California, USA

Deadline for:

Space reservation for final program:	February 19, 2018
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#### SIAM Conference on NONLINEAR WAVES and COHERENT STRUCTURES (NWCS18)

June 11-14, 2018 · DoubleTree by Hilton Hotel, Orange, California USA

Deadline for:

Space reservation for final program:	April 16, 2018
Registration Inserts:	May 7, 2018
Tabletop/Combined Exhibit Contracts:	May 14, 2018
Expected Attendance:	250- 300

#### SIAM Conference on APPLIED MATHEMATICS EDUCATION (ED18)

July 9-11, 2018 · Oregon Convention Center, Portland, Oregon, USA  
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Space reservation for final program:	May 14, 2018
Registration Inserts:	June 4, 2018
Tabletop/Combined Exhibit Contracts:	June 11, 2018
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#### SIAM ANNUAL MEETING (AN18) and SIAM Conference on MATHEMATICAL ASPECTS OF MATERIALS SCIENCE (MS18)

July 9-13, 2018 · Oregon Convention Center, Portland, Oregon, USA  
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