

# SIAM eBooks使用指引



逢甲大學圖書館  
參考服務組

# 認識SIAM



- **Society for Industrial and Applied Mathematics (SIAM)**
- 創立於**1952**年，致力於工業和數學應用發展、提升數學和計算機學的理論與技術。其研究活動活躍於科學界、工程界及工業界，冀望提供數學家、工程師和科學家一個資訊與想法交流的媒介。

# 認識SIAM eBooks



- 收錄Society for Industrial and Applied Mathematics (SIAM)出版的電子書
- 目前本館可使用**323種**(清單詳見圖書館網頁)
- 如何連線使用：
  1. 圖書館首頁→電子書→SIAM ebooks
  2. 圖書館首頁→電子資料庫列表→S →SIAM ebooks

# SIAM eBooks涵蓋的主題

- 應用數學研究
- 探索數學新領域
- **CBMS-NSF - 應用數學**
- 數學模組與計算
- 演算法原理
- 應用數學
- 古典應用數學
- 其他應用數學**titles**
- 計算機科學與工程學
- 應用數學會議論文
- 設計與控制的發展
- **ASA-SIAM series** 統計與應用或然性
- 離散數學及應用
- 軟體、環境和工具

# 認識SIAM eBooks查詢方法



- 1. Search**  
全資料庫查詢
- 2. Topics**  
依主題瀏覽相關圖書
- 3. Browse Catalogue**  
依書名瀏覽所有圖書

依書名瀏覽所有圖書

全資料庫查詢

Total: 357 Books



Search

Please describe what are you looking for...

檢索

請選擇檢索欄位：

- Title
- Author
- Contents
- Chapter Name
- All fields

Topics

- ❖ Studies in Applied Mathematics
- ❖ CBMS-NSF Regional Conference Series in Applied Mathematics
- ❖ Classics in Applied Mathematics
- ❖ Computational Science and Engineering
- ❖ Advances in Design and Control
- ❖ Discrete Mathematics and Applications
- ❖ Fundamentals of Algorithms
- ❖ Frontiers in Applied Mathematics
- ❖ Mathematical Modeling and Computation
- ❖ MPS/SIAM Series on Optimization
- ❖ Other Titles in Applied Mathematics
- ❖ Proceedings in Applied Mathematics

Featured Titles

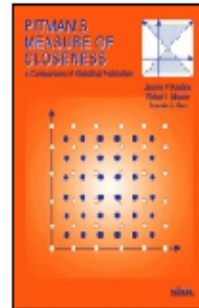
依主題瀏覽相關圖書



CARDINAL SPLINE INTERPOLATION  
I. J. SCHOENBERG



Mathematical and Computational Techniques for Multilevel Adaptive Methods  
Ulrich Rude



PITMAN'S MEASURE OF CLOSENESS: A Comparison of Statistical Estimators  
Jerome P. Keating | Robert L. Mason | Pranab K. Sen



Topics in Finite Elasticity  
MORTON E. GURTIN

# Search (全資料庫查詢)

The screenshot shows the SIAM Reference Collection search page. At the top, the logo 'siam Reference Collection' is on the left, and 'powered by iG' is on the right. A navigation bar contains links for 'Search', 'Browse Catalogue', '歷史記錄', '我的書籤', '使用說明', and '登出系統'. The main search area features a magnifying glass icon, a search input field with the placeholder 'Please describe what are you looking for...', and a '檢索' button. Below the input field, there are radio buttons for search criteria: 'Title', 'Author', 'Chapter Name', 'All fields', and 'Contents' (which is selected). A 'Featured Titles' section displays three book covers with their titles and authors. On the right, a 'Topics' sidebar lists various mathematical subjects. Two yellow callout boxes with dashed green borders provide instructions: the first points to the search input field, and the second points to the search criteria radio buttons.

powered by iG

Search | Browse Catalogue | 歷史記錄 | 我的書籤 | 使用說明 | 登出系統

Total: 357 Books

**Search**

Please describe what are you looking for...

檢索

請選擇檢索欄位：

Title  Author  Chapter Name  All fields

Contents

**Featured Titles**

**Topics**

- Studies in Applied Mathematics
- CBMS-NSF Regional Conference Series in Applied Mathematics
- Classics in Applied Mathematics
- Computational Science and Engineering
- Advances in Design and Control
- Discrete Mathematics and Applications
- Fundamentals of Algorithms
- Frontiers in Applied Mathematics
- Mathematical Modeling and Computation
- MPS/SIAM Series on Optimization
- Other Titles in Applied Mathematics
- Proceedings in Applied Mathematics

**1. 輸入要查詢的關鍵字詞**

**2. 選擇檢索欄位(希望關鍵字詞出現的位置)**

※欄位說明：

**Title**：書名

**Author**：作者

**Contents**：全文內容

**Chapter Name**：章節名稱

**All fields**：所有欄位

**A Primer for Sampling Solids, Liquids, and Gases**  
Based on the Seven Sampling Times of Pirella  
Patricia L. Smith

**LAPACK Users' Guide**  
Jack J. Dongarra

**PROCEEDINGS OF THE SIXTH WORKSHOP ON ALGORITHM ENGINEERING AND EXPERIMENTS AND THE FIRST WORKSHOP ON ANALYTIC ALGORITHMS AND COMBINATORICS**  
Distributed Parameter Systems  
Job Oostveen

# 查詢結果頁面

The screenshot shows a library search results page for the query "(statistics) in TITLE". The page features a header with the "siam Reference Collection" logo and navigation links. The main content area displays three book results, each with a cover image, title, and author information. The word "statistics" in the titles is highlighted in red. A right-hand sidebar contains a "Process Results" section with options to view more detail, select items, and place bookmarks, and a "SearchBox" section with a "Refine this results" checkbox and radio buttons for filtering by Title, Contents, All Fields, Author, or Chapter Name. Annotations in yellow boxes with dashed green borders point to various elements: "查詢結果筆數" points to the search count; "查詢結果呈現方式" points to the "View more detail" link; "以紅色標示查詢的關鍵字" points to the red text in the titles; "查詢結果頁面控制區 (可點選跳頁)" points to the top right navigation area; and "勾選Refine this results (由結果列表中檢索)，針對此次查詢結果進行二次檢索" points to the "Refine this results" checkbox.

**siam Reference Collection** | Search | Browse Catalogue | Search History | Bookmarks | User Guide | Powered by iG

6 books (1382 pages) found for : **(statistics)** in TITLE

**Anthology of Statistics in Sports**  
Jim Albert, Jay Bennett, James J. Cochran

**Mathematica Laboratories for Mathematical Statistics  
Emphasizing Simulation and Computer Intensive Methods**  
Jenny A. Baglivo

**Basic Concepts of Probability and Statistics Second Edition**  
J. L. Hodges, Jr., E. L. Lehmann

Book 1-5 of 6 books are displayed.  
1-5 6

**Process Results:**  
View more detail | less detail  
Select All None Invert  
Place bookmark(s) Remove

**SearchBox:**  
 Refine this results  
Search  
 Title  Author  
 Contents  Chapter Name  
 All Fields

查詢結果筆數

以紅色標示查詢的關鍵字

查詢結果呈現方式

查詢結果頁面控制區 (可點選跳頁)

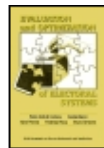
勾選Refine this results (由結果列表中檢索)，針對此次查詢結果進行二次檢索



# Topics (依主題瀏覽相關圖書)

## Discrete Mathematics and Applications

目前瀏覽的主題



Evaluation and Optimization of Electoral Systems



Topics in Intersection Graph Theory



Graph Classes: A Survey



Branching Programs and Binary Decision Diagrams



Distributed Computing: A Locality-Sensitive Approach



Combinatorial Data Analysis: Optimization by Dynamic Programming



Complexity Classifications of Boolean Constraint Satisfaction Problems



Discrete Mathematics of Neural Networks: Selected Topics



The Vehicle Routing Problem



Discrete Convex Analysis

## Topics

- Studies in Applied Mathematics
- CBMS-NSF Regional Conference Series in Applied Mathematics
- Classics in Applied Mathematics
- Computational Science and Engineering
- Advances in Design and Control
- Discrete Mathematics and Applications
- Fundamentals of Algorithms
- Frontiers in Applied Mathematics
- Mathematical Modeling and Computation
- MPS/SIAM Series on Optimization
- Other Titles in Applied Mathematics
- Proceedings in Applied Mathematics

# Browse Catalogue (依書名瀏覽所有圖書)

## Browse Catalogue

點選書名開頭的字母

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#) | [Others](#) | [ALL](#) | [Download Marc Records for this collection](#)

點書名可以開啓圖書



**ScaLAPACK Users' Guide**  
by *L. S. Blackford*\J. Choi\A. Cleary\E. D'Azevedo\J. Demmel\J. Dongarra\S. Hammarling\G. Henry\A. Petitet\K. Stanley\D. Walker\R. C. Whaley  
Society for Industrial and Applied Mathematics., 1997  
ISBN:0-89871-397-8



**Scientific Computation on Mathematical Problems and Conjectures**  
by *RICHARD S. VARGA*  
Society for Industrial and Applied Mathematics, 1990  
ISBN:0-89871-257-2



**Selecting and Ordering Populations A New Statistical Methodology**  
by *Jean Dickinson Gibbons*\Ingram Olkin\Milton Sobel  
Society for Industrial and Applied Mathematics., 1999  
ISBN:0-89871-439-7 (pbk.)



**Sequential Analysis and Optimal Design**  
by *Herman Chernoff*  
Society for Industrial and Applied Mathematics., 1972  
ISBN:0-89871-006-5



**Shapes and Geometries Analysis, Differential Calculus, and Optimization**  
by *M. C. Delfour*\J.R. Zolesio  
Society for Industrial and Applied Mathematics., 2001  
ISBN:0-89871-489-3



**Simulating, Analyzing, and Animating Dynamical Systems**  
by *Eard Ermentrout*  
Society for Industrial and Applied Mathematics, 2002  
ISBN:0-89871-506-7

# 閱讀電子書內容

- 點選查詢結果中的書名、章節或頁數，以及透過**Browse Catalogue**或**Topics**方式，點選書名，可進入到書籍的詳細瀏覽頁面。

The screenshot displays the 'SIAM Reference Collection' interface. The top navigation bar includes 'Search | Browse Catalogue | Search History | Bookmarks | User Guide | Logout'. Below this, there are tabs for 'Table of Contents', 'Details', and 'Search Results'. The left sidebar shows a table of contents for 'Methods Tests of Significance Confidence Intervals', with 'Chapter 4 Using Adaptive Tests in the Practice of Statistics' selected. The main content area shows the title 'Chapter 4 Using Adaptive Tests in the Practice of Statistics' and the section '4.1 A SAS Macro for Adaptive Tests'. Annotations with yellow boxes and dashed green borders point to various UI elements: 'Back to Main Search Results' (回到查詢結果主頁面), 'TOC' (點選TOC可以開啓或隱藏書籍目次), 'Search' (在頁面左下方開啓一個快速檢索視窗), and 'Page 64' (將頁面加到書籤 (Bookmarks)). A red circle highlights a small red arrowhead next to 'Page 64' in the table of contents, with an annotation stating '本書章節目次 紅色小箭頭為標示目前頁面'. A yellow box at the top right contains the text '上一頁或下一頁' with arrows pointing to navigation icons. The page number '111%' is visible in the bottom right corner of the content area.

# Search History (檢索歷史紀錄)

- 點選“Search History”可以看到目前在資料庫所使用過的檢索策略

The screenshot shows the Siam Reference Collection interface. The top navigation bar includes 'Search | Browse Catalogue | Search History | Bookmarks | User Guide | Logout', with 'Search History' highlighted by a red dashed box. The main content area displays a list of 7 search queries with checkboxes for selection and icons for saving or deleting. Annotations in yellow boxes explain the functionality of these icons. On the right, the 'Process History' and 'SearchBox' panels are visible, showing search options and filters.

There are 7 Queries found in Search History

Query	Save Icon	Delete Icon
1 <input type="checkbox"/> (sas) in TITLE	<input type="checkbox"/>	<input type="checkbox"/>
2 <input type="checkbox"/> (Algorithms) in CONTENT	<input type="checkbox"/>	<input type="checkbox"/>
3 <input type="checkbox"/> ((discrete) in CONTENT) AND ((Algorithms) in CONTENT)	<input type="checkbox"/>	<input type="checkbox"/>
4 <input type="checkbox"/> (conference) in TITLE	<input type="checkbox"/>	<input type="checkbox"/>
5 <input type="checkbox"/> (Distribution Theory) in CONTENT	<input type="checkbox"/>	<input type="checkbox"/>
6 <input type="checkbox"/> (Extending H8 Control to Nonlinear Systems) in TITLE	<input type="checkbox"/>	<input type="checkbox"/>
7 <input type="checkbox"/> (computer science) in CONTENT	<input type="checkbox"/>	<input type="checkbox"/>

Annotations:

- 可勾選不同檢索策略，以AND、OR，結合進行查詢
- 可勾選不同檢索策略，再以AND、OR結合關鍵字詞進行檢索
- 儲存檢索策略(存檔於本機電腦)

Process History: Total: 7 Queries Max: 30 Free: 23

Select

Combine term(s) with

SearchBox:

Combine with term(s)

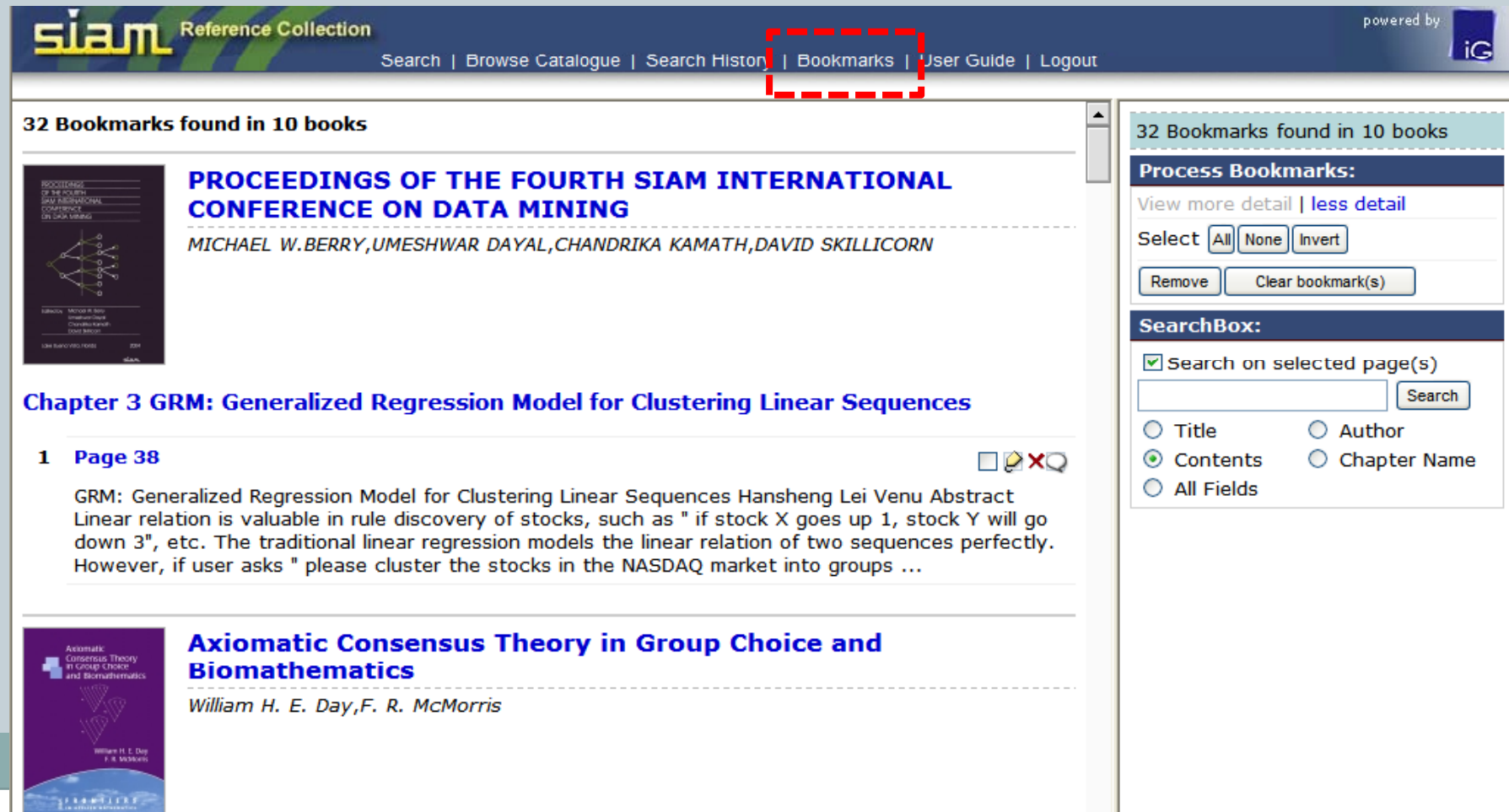
Title  Author

Contents  Chapter Name

All Fields

# Bookmarks (書籤)

- 對於感興趣的頁面，可以點選  或  圖示將該頁加入書籤(bookmark)；若點選”Bookmarks”可看到註記書籤的資料(Login或關掉視窗之後資料也會清除)



**siam** Reference Collection powered by **iG**

Search | Browse Catalogue | Search History | **Bookmarks** | User Guide | Logout

32 Bookmarks found in 10 books

**PROCEEDINGS OF THE FOURTH SIAM INTERNATIONAL CONFERENCE ON DATA MINING**  
MICHAEL W. BERRY, UMESHWAR DAYAL, CHANDRIKA KAMATH, DAVID SKILLICORN

**Chapter 3 GRM: Generalized Regression Model for Clustering Linear Sequences**

1 Page 38

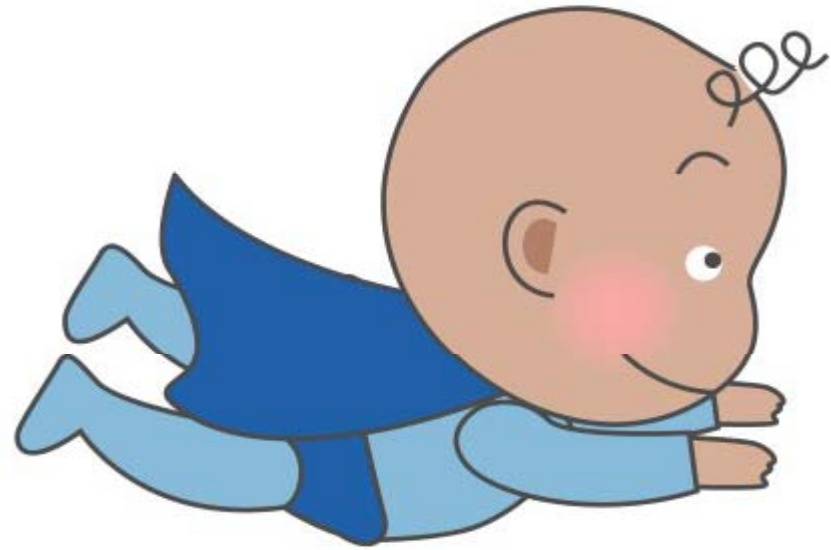
GRM: Generalized Regression Model for Clustering Linear Sequences Hansheng Lei Venu Abstract  
Linear relation is valuable in rule discovery of stocks, such as " if stock X goes up 1, stock Y will go down 3", etc. The traditional linear regression models the linear relation of two sequences perfectly. However, if user asks " please cluster the stocks in the NASDAQ market into groups ...

**Axiomatic Consensus Theory in Group Choice and Biomathematics**  
William H. E. Day, F. R. McMorris

32 Bookmarks found in 10 books

**Process Bookmarks:**  
View more detail | less detail  
Select

**SearchBox:**  
 Search on selected page(s)  
   
 Title  Author  
 Contents  Chapter Name  
 All Fields



- 有任何建議或問題歡迎與我們聯絡

服務電話：04-2451-7250分機2683

現場諮詢：圖書館一樓參考服務櫃檯