

SIAM (Society for Industrial and Applied Mathematics)

(<http://epubs.siam.org/> OR <http://locus.siam.org/>)

Inspired by the vision that applied mathematics should play an important role in advancing science and technology in industry, a small group of professionals from academe and industry met in Philadelphia in 1951 to start an organization whose members would meet periodically to exchange ideas about the uses of mathematics in industry. This meeting led to the organization of the Society for Industrial and Applied Mathematics (SIAM). SIAM exists to ensure the strongest interactions between mathematics and other scientific and technological communities through membership activities, publication of journals and books, and conferences. Access to 14 Journals with back files from 1997 onwards is made available to the member universities of UGC-Infonet Digital Library Consortium. Access to Locus Home (1952 to 1996) is also being provided to selected member of the Consortium.

SIAM journals can be accessed from simple and user friendly interface. The Homepage itself contains information related to titles, simple search, archival access and other important options to explore this database.

Accessible to: 53 Univ. (Phase I & II)

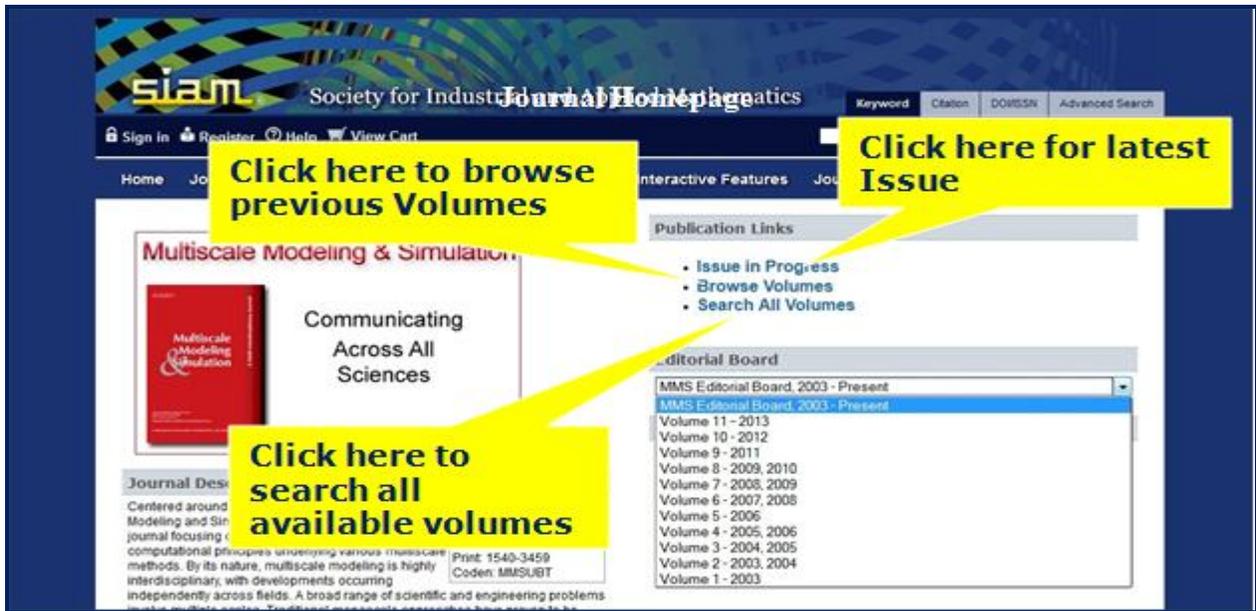
Coverage: 1997 onwards

Browse

SIAM journals online are available through two options, which are given on its homepage. To browse any of the journals just click on Journals tab located on menu bar. Home page of SIAM also contain cover page of all journals. Click on any of the Cover pages to view home page of particular journal.

The screenshot shows the SIAM website homepage. At the top, there is a navigation bar with the SIAM logo and the text 'Society for Industrial and Applied Mathematics'. Below the navigation bar, there is a search bar with fields for 'Keyword', 'Citation', 'DOI/ISSN', and 'Advanced Search', and a 'GO' button. The main content area features a 'Journals' tab in the navigation bar, which is highlighted. A yellow callout box points to the 'Journals' tab with the text 'Click here to Browse list of Journal'. Below the 'Journals' tab, there is a list of journal titles, including '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', and 'SIAM Review'. A yellow callout box points to the 'SIAM J. on Applied Mathematics' journal icon with the text 'To browse any of the journal click at the Icon'. To the right of the journal list, there is a 'Search Options' section with a dropdown menu set to 'All Content' and a 'GO' button. Below the 'Search Options' section, there is a grid of journal cover images, including 'SIADS', 'SIAP', 'SICON', 'SIDMA', 'SIIMS', 'SIMA', 'SINUM', 'SIOPT', 'SISC', 'JUQ', and 'SIREV'.

To browse a specific journal just click on the icon and this will lead to the homepage of journal. Following screen shot shows the homepage of a journal.



Home page of a journal contains various options to explore it further. The few of the options are:

Search this issue: one can search within the current issue only.

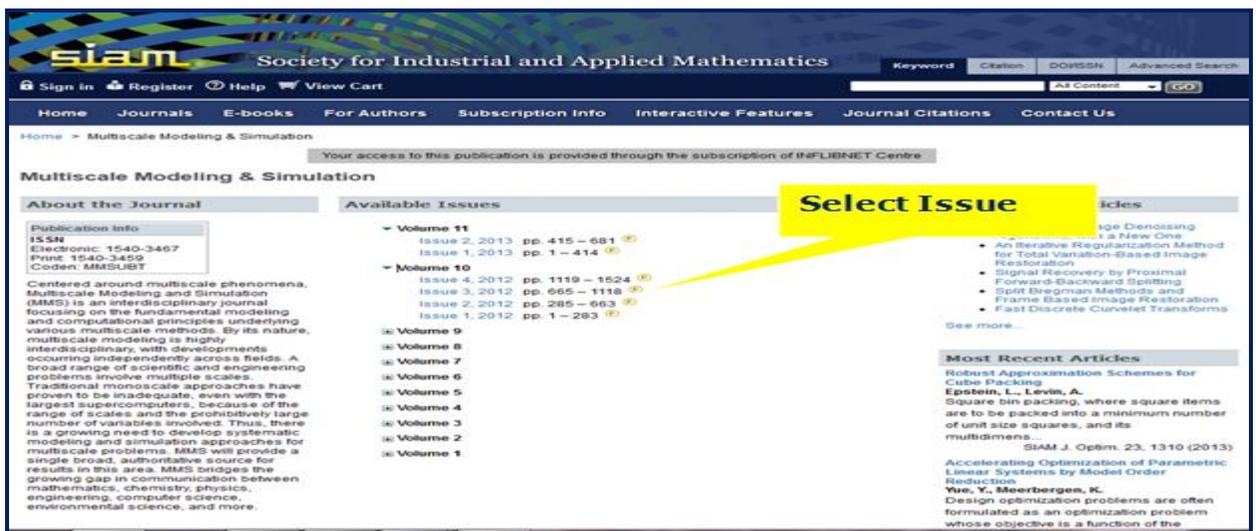
Available volume list: by using this option one can get list of all available volumes and issues list.

Browse current Issue: Click on "Issue in Progress" option to get the latest issue

Browse Volumes: from here user can browse all volumes of SIAM.

Search All Volumes: user can search their desired volume from here by selecting the publication date (See the below screenshot).

Select volume and click on desired issue to view table of content page.



User can export citations of selected articles, show or hide abstract, add favorite articles in their profile and set up email alerts and read RSS feed using various options available on

table of content page. Left hand sided search box allows user to search content within the issue. Clicking at Previous Issue / Next Issue option, user can also navigate easily from one issue to another. Click on PDF to download full-text article in PDF format.

The screenshot shows the SIAM website interface. At the top, there are search options: Keyword, Citation, DOI/ISSN, and Advanced Search. Below this is a search bar with a dropdown menu set to 'All Content' and a 'GO' button. The main content area displays 'Multiscale Modeling & Simulation' for 'Volume 10, Issue 4, pp. 1119-1524'. A left sidebar shows a 'Browse Volumes' section with a 'Year Range' dropdown set to '2010-Current' and a list of volumes from 8 to 11. The main article list includes 'Error Bound for Piecewise Deterministic Processes Modeling Stochastic Reaction Systems' by Tobias Jahnke and Michael Kreim, and 'Diffusion and Homogenization Limits with Separate Scales' by Naoufel Ben Abdallah, Marjolaine Puel, and Michael S. Vogelius. A yellow callout box points to the 'Search within Issue' link. Another yellow callout box points to the 'Previous Issue Next Issue' links. A third yellow callout box points to the 'Show Abstract' link for the first article. A fourth yellow callout box points to the 'Download Full-text in PDF Format' link for the second article.

Search

Home page of SIAM Provides following search options.

- Keyword search
- Citation Search
- DOI/ISSN Search
- Advanced Search

Keyword search

Keyword search can be used to search keyword from Journal or book or both. Enter keyword in text entry box and select an appropriate option from drop down menu and then click on search button.



Citation Search- If user knows the bibliographical details of required article, he/she can use Citation Search to precise their search. Enter a word in journal entry box, it displays list of all journals. Click on journal of interest and then enter volume, issue and page number. Click on Go to run the search



DOI/ISSN Search- Enter DOI number and click on Go to access desired article.



Advanced Search: In advanced search option various parameters can be put across to make a search. Using advanced search options more than two keywords/ terms/ names / phrases can be searched from specific fields.

For example, Enter Matrix in first text entry box then select Title from drop down menu. Select AND as a Boolean operator and type Pascal in second text entry box and select Author from drop down menu. Now Click on Search. User can also limit their search by adding publication titles and selecting publication date range.

Enter Search Term and Select Search Criteria

Select Publication and Date Range

Search History

The screenshot shows the Siam Search homepage with a navigation menu (Home, Journals, E-books, Authors, Subscription Info, Interactive Features, Journal Citations, Contact Us) and a search bar with tabs for Keyword, Citation, DOI/ISSN, and Advanced Search. The 'Advanced Search' section is expanded, showing search criteria (Search Terms, Publication Title(s), Publication Date) and search tips. A 'Search' button is visible. The 'Session History' section shows a list of recent searches.

Result output

The following is the result of the query, which has been executed under the Advanced search option of this user guide. This output interface gives options to modify Search Query. User can also filter their search by publication, article type, author, keyword or Publication year and also sort their result by relevancy and date. To view/download the article in PDF format, click on PDF option.

The screenshot shows the SIAM search results interface. The header includes the SIAM logo and navigation links like 'Sign in', 'Register', 'Help', and 'View Cart'. The search criteria are 'Publication Title: Matrix AND Authors: pascal'. The results list two articles: 'Matrix Rational H_2 Approximation: A Gradient Algorithm Based on...' and 'Displacement Rank of Generalized Inverses of Persymmetric Matrices'. Callouts highlight the 'Download Full-text in PDF Format' option and the 'Ser up Email Alerts' link.

Other Features

E-mail alerts: A free e-mail alerting service is available for SIAM publications. User need to register to avail the service. By subscribing to this service, user will receive table of contents alerts as new journal or magazine issues are published - in either plain-text (ASCII) or HTML format. Alerts in HTML format are fully linked to abstracts and full text.