

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 13 Journals is made available to the member universities of UGC-Infonet Digital Library 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: 100 Univ. (Phase I&II)

Coverage: 1997 onwards

Browse

To browse any of the journals just click on the icon belongs to that particular journal or at the top of the first Interface's screen coded string is given to explore particular journal.

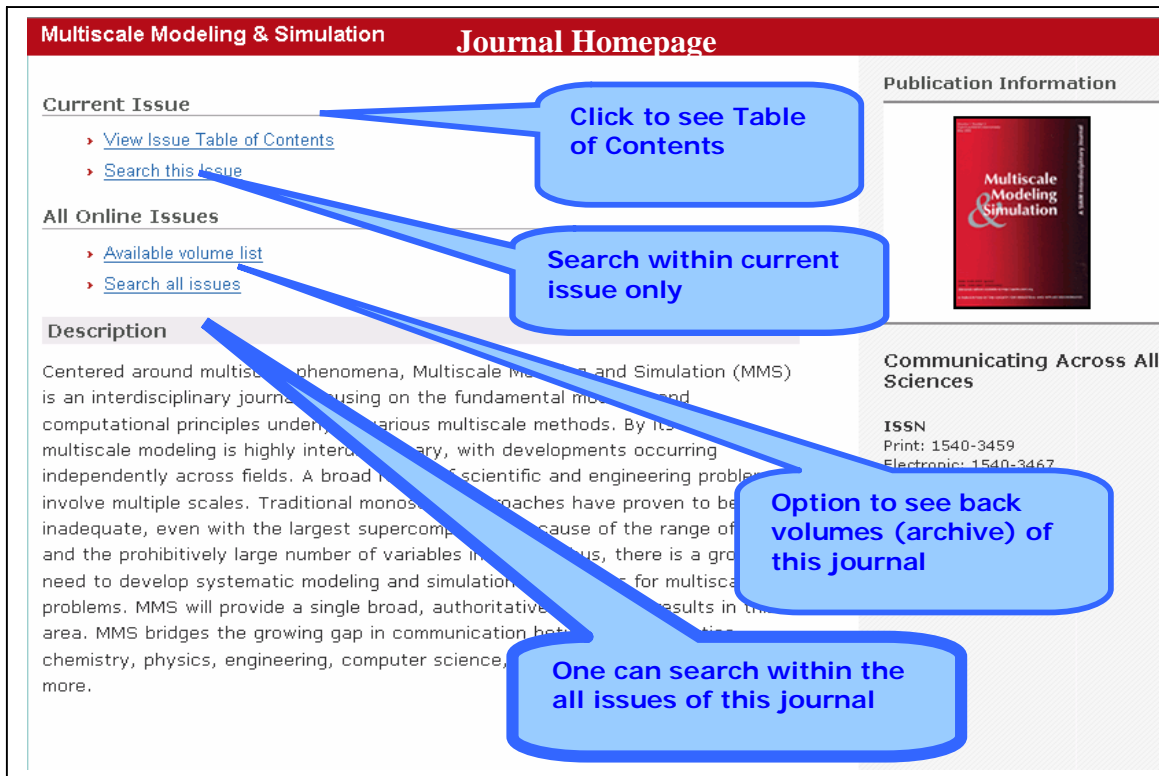
The screenshot shows the SIAM Journals Online homepage. At the top, there is a navigation bar with journal codes: MMS, SIADS, SIAP, SICOMP, SICON, SIDMA, SIIMS, SIMA, SIMAX, SINUM, SIOPT, SISC, SIREV, TVP. Below this is the main header: "SIAM JOURNALS ONLINE 1997 to present Your Link to the World of Applied Mathematics". A search bar is located on the right side of the header. The main content area is a grid of journal covers, including titles like "Multiscale Modeling & Simulation", "SIAM Journal on Applied Dynamical Systems", "SIAM Journal on Applied Mathematics", "SIAM Journal on Computing", "SIAM Journal on Control and Optimization", "SIAM Journal on Discrete Mathematics", "SIAM Journal on Imaging Sciences", "SIAM Journal on Mathematical Analysis", "SIAM Journal on Matrix Analysis and Applications", "SIAM Journal on Numerical Analysis", "SIAM Journal on Optimization", and "SIAM Journal on Scientific Computing". A left sidebar contains links for "SIAM Journals Online Home", "Locus Home", "Recently Posted Articles", "Subscription & Pricing", "Subscription Agreement", "Frequently Asked Questions", "About SIAM Citations", "Author Submissions", "Contact Us", and "Sample Issue". Annotations include a callout for "Homepage" pointing to the top left, a box for "Choose any of the Journal's code to explore homepage of the same from this direct link option" pointing to the navigation bar, a box for "Search Options" pointing to the search bar, and a box for "To browse any of the journal click at the icon" pointing to a journal cover icon.

SIAM journals online are available through two options, which are given on its homepage:

- i). SIAM Journals Online Home (1997 to present)
- ii). Locus Home (1952 to 1996)

* UGC-Infonet Consortium users can access SIAM Journals Online (1997 to present) but separate subscription need to be made to explore Locus (1952 to 1996).

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:

View Issue Table of Contents: Use this option to navigate the current issue. It contains table of contents of current issue with title, author and page numbers and download options of articles available.

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[Ingrid Daubechies](#), [Olof Runborg](#), and [Jing Zou](#)
pp. 711-740
[BibTeX](#) [Abstract](#) Full Text: [PDF](#)
- Higher Order Mori-Zwanzig Models for the Euler Equations
[Panagiotis Stinis](#)
pp. 741-760
[BibTeX](#) [Abstract](#) Full Text: [PDF](#)
- Multiscale Modeling and Time-Scale Analysis of a Human Limb
[Csaba Farkas](#), [György Kozmann](#), and [Katalin M. Hangos](#)
pp. 761-791
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- Kinetic Models for Imaging in Random Media

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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.

Search

Simple Search: SIAM journals homepage has option to execute simple query. In this a simple term/s or keyword/s can be written the given box and click at search button to search SIAM journals. The following is the example of simple search:

Write the term/keyword that you want to search

arithmetics Search [Advanced Search](#)

And then click to execute the query

Advance search option

The simple search is extended again by giving two search query boxes (both of which have as associated pull down menus containing the most frequently searched fields) which allows users to minimize and maximize the query by using Boolean operators. The following screen shot is the example of extended search option.

Various Search Options

Search All Issues
[\[Advanced Search \]](#) [\[Search Scitation \]](#) [\[Search SPIN Database \]](#) [\[Search Scitation Plus SPIN \]](#) [\[Searching Help \]](#)

Select one or more journals from this list:

- All Journals
- Multiscale Modeling and Simulation
- SIAM Journal on Applied Dynamical Systems
- SIAM Journal on Applied Mathematics
- SIAM Journal on Computing

Search Query with various parameters

arithmetics in Full Bibliographic Record

AND algorithm in Abstract/Title/Keywords

AND amir in Author

Hitlist Sorting Options Records Per Page

Show Most Recent First 25

by Verity Reset Search Tips & Examples

The following options may be used to enhance

Publication Date Range

Month Day Year through Year

Volume/Issue Range

From: Vol. Iss. To: Vol. Iss.

by Verity Reset Search Tips & Examples

TIPS & EXAMPLES

Searching for ...	Returns records containing:
perturbation	any word for which <i>perturb</i> is the stem, such as <i>perturbs</i> , <i>perturbing</i> , <i>perturbation</i> ,

Search Fields

Tips and examples to make effective search

Advance Search: In advance search option various parameters can be put across to make a search. In this two and more than two keywords/ terms/ names / phrases can be searched.

In this a single search query box is given, without any operator menus, and user has to compose the search query according the descriptions and examples given in the table, which is available at the advance search option of the SIAM online journals.

Search All Issues

[[Simple Search](#)] [[Search Scitation](#)] [[Search SPIN Database](#)] [[Search Scitation Plus SPIN](#)] [[Searching Help](#)]

Select one or more journals from this list:

- All Journals
- Multiscale Modeling and Simulation
- SIAM Journal on Applied Dynamical Systems
- SIAM Journal on Applied Mathematics
- SIAM Journal on Computing

Use the [descriptions and examples](#) in the table below to compose your search query. For additional detail, see [Searching Help](#).

arithmetics <and> algorithm <and> amir

Hitlist Sorting Options: Show Most Recent First

Records Per Page: 25

Threshold: All

Advance Search Query

Search [Reset] Search Tips & Examples

Use the option to enhance the

The following options may be used to enhance your search query & results list.

Publication Date Range

Month [] Day [] Year [] through Month [] Day [] Year []

Volume/Issue Range

From: Vol. [] Iss. [] To: Vol. [] Iss. []

Search [Reset] Search Tips & Examples

Search examples and help to make effective and efficient

ADVANCED SEARCH DESCRIPTIONS & EXAMPLES		
Descriptions	Valid Syntax	Examples
Searchable Zones:	Note: spaces are required around all "<" and ">" symbols.	Note: placing a word or phrase inside double quotes finds <i>exact</i> matches only, excluding stemmed variations such as plurals, -ed, -ing, etc.
Abstract/Title/Keywords (of article)	term <IN> abstract <OR> term <IN> title <OR> term <IN> keywords	dynamics <IN> abstract <OR> dynamics <IN> title <OR> dynamics <IN> keywords
Author (of article)	term <IN> author (<i>shortcut: au</i>)	jones <IN> author jones <IN> au
Affiliation (of author: generally location)	term <IN> affiliation (<i>shortcut: af</i>)	"max planck" <IN> affiliation "max planck" <IN> af

Result output

The following is the result of the query, which has been executed under the Simple search option of this user guide. This output interface gives options to modify through Back to Search Query, option to start a New Search and searching hints. The full text of the articles (output) can be downloaded in given format and one can see the abstract of the same article after clicking the title.

Back to the search query to modify it

Option to make New Search

Search help and hints

Search All Issues

[Back to Search Query] | [Start New Search](#) | [Searching Hints](#)

You were searching for : (((arithmetics) <and>(algorithm <IN> (abstract,title,keywords)))

<and>(amir <IN> author) **IRSS** 2

You found 2 out of 34713 (2 returned) Documents 1 - 2 listed on this page

Options for selected Articles [View My Articles](#)

Check Article(s) then ?

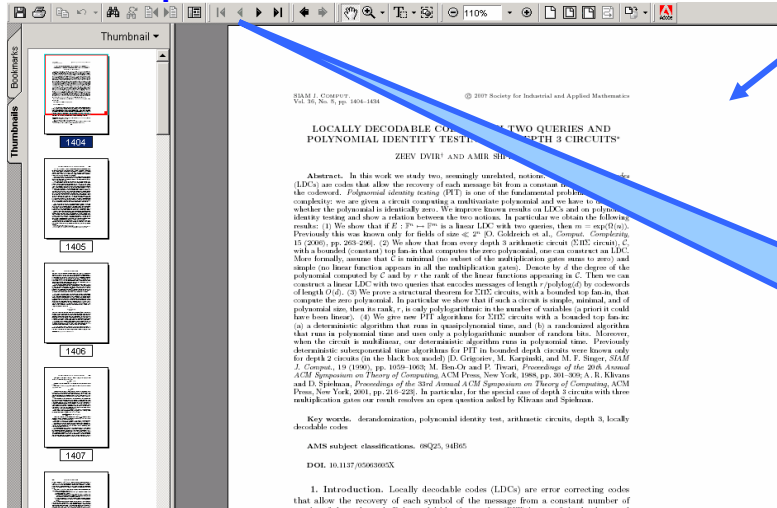
Select up to 20 articles at a time. [YOUR CART](#)

Query result with title, author/s, page no., and download options

- [Locally Decodable Codes with Two Queries and Polynomial Identity Testing for Depth 3 Circuits](#)
Zeev Dvir and Amir Shpilka
SIAM J. Comput. **36**, 1404 (2007) Full Text: [[PDF \(294 kB\)](#) | [GZipped PS](#)]
- [An Alphabet Independent Approach to Two-Dimensional Pattern Matching](#)
Amihoud Amir, Gary Benson, and Martin Farach
SIAM J. Comput. **23**, 313 (1994) Full Text: [[PDF \(1474 kB\)](#) | [GZipped PS](#)]

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Options for saving, printing and searching etc. are available here

Other Features

Recently Posted Articles: This service can be availed through e-mail option and for this one has to add his/her email ID for getting the alerts from needed journals.

E-mail alerts: A free e-mail alerting service is available for the following SIAM publications. By subscribing to this service, you will receive table of contents alerts as new journal or

magazine issues are published - in either plain-text (ASCII) or HTML format. Contents alerts are delivered directly to the e-mail address you specify; alerts in HTML format are fully linked to abstracts and full text.

Scitation Home: SIAM Online Journals Homepage gives link to Scitation. Anyone can use the Scitation (free use of Scitation's search engine) and discover more than one million documents from scholarly journals, magazines, conference proceedings, and other special publications from prestigious scientific societies and technical publishers.

Search SPIN: SIAM online Journals Homepage also gives link to search SPIN (Searchable Physics Information Notices), which is a database of AIP. This database includes bibliographic records and abstracts for more than 105 million articles from major physical science journals, magazines and other important publications of American Institute of Physics, its member societies and other affiliated organizations.