

Type: **mathscinet** into the search window for the library: <http://www.uvic.ca/library/index.php> and hit **Search**

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- Find an available computer

+ Frequently asked questions

Spotlight 1

Click on **MathSciNet**

The screenshot shows a web browser window with the URL `http://uvic.summon.serialssolutions.com/search?s.q=mathscinet`. The search results page is for the University of Victoria Libraries. The search term is "mathscinet", and it returned 1,126 results. A recommendation box highlights MathSciNet as a specialized collection. A blue arrow points to the MathSciNet link in the recommendation box.

University of Victoria Libraries

mathscinet Advanced Search

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Search Results: Your search for **mathscinet** returned **1,126** results

Relevance

Refine your search

- Items with full text online
- Limit to articles from scholarly publications, including peer-review
- Limit to articles from peer-reviewed publications
- Exclude Newspaper Articles
- Items in the library catalog
- Add results beyond your library's collection

Content Type

- Any

Recommendation: We found one or more specialized collections that might help you.

- **MathSciNet** - Database of reviews, abstracts and bibliographic information for much of the mathematical sciences literature

MathSciNet ←

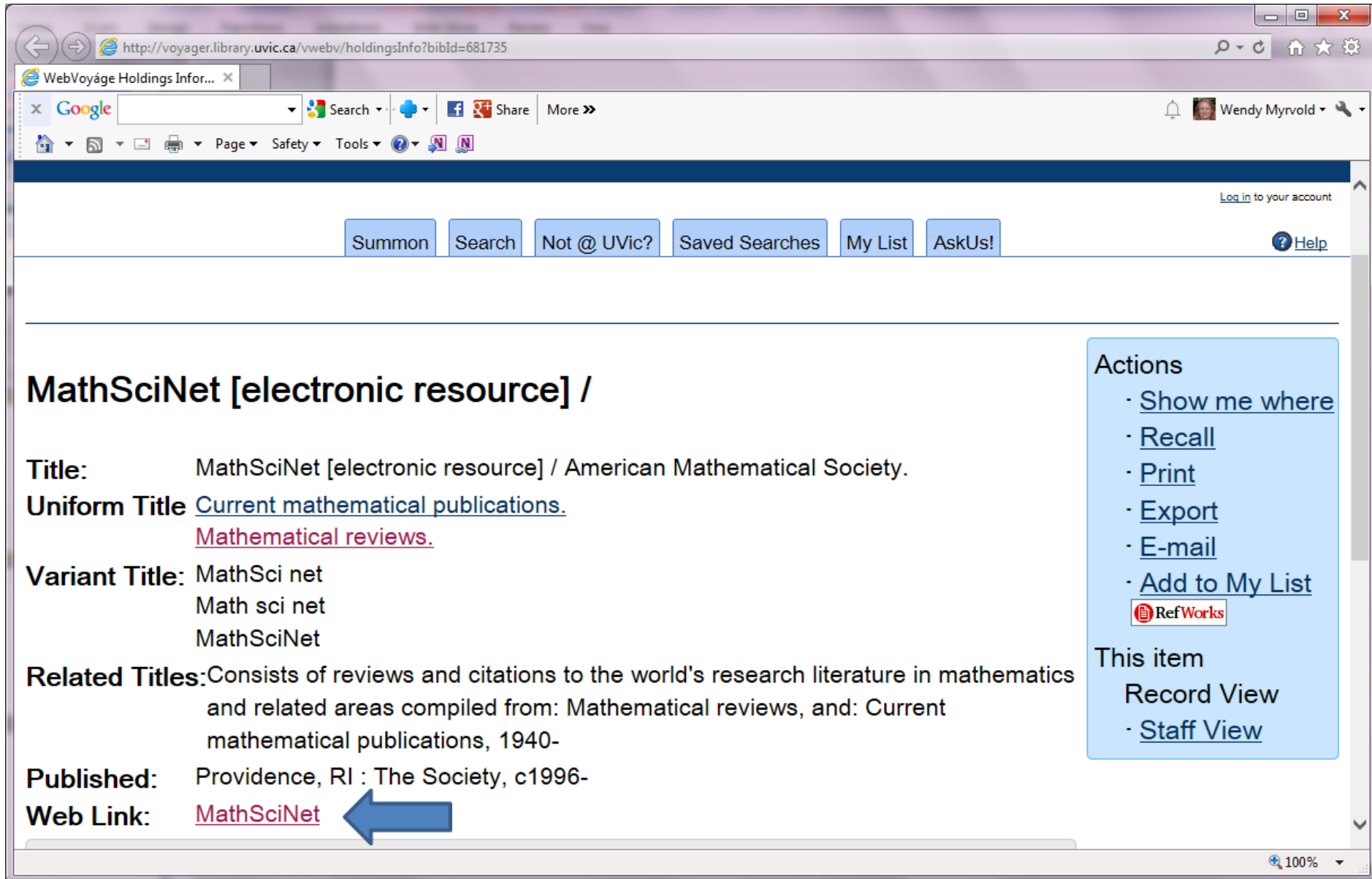
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1979
Mathematics
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Click on the **MathSciNet** web link:



The screenshot shows a web browser window displaying a library catalog record. The browser's address bar shows the URL: <http://voyager.library.uvic.ca/vwebv/holdingsInfo?bibId=681735>. The page title is "WebVoyage Holdings Infor...". The browser's search bar contains "Google". The user is logged in as "Wendy Myrvold". The page features a navigation bar with buttons for "Summon", "Search", "Not @ UVic?", "Saved Searches", "My List", and "AskUs!". A "Log in to your account" link is visible in the top right. The main content area displays the title "MathSciNet [electronic resource] /" and provides detailed bibliographic information. A blue arrow points to the "Web Link" field, which contains the text "MathSciNet". On the right side, there is a "Actions" menu with options: "Show me where", "Recall", "Print", "Export", "E-mail", and "Add to My List". Below this menu is a "RefWorks" icon. Further down, a "This item" section includes "Record View" and "Staff View". The browser's status bar at the bottom indicates a zoom level of 100%.

MathSciNet [electronic resource] /


Title: MathSciNet [electronic resource] / American Mathematical Society.

Uniform Title [Current mathematical publications.](#)
[Mathematical reviews.](#)

Variant Title: MathSci net
Math sci net
MathSciNet


Related Titles: Consists of reviews and citations to the world's research literature in mathematics and related areas compiled from: Mathematical reviews, and: Current mathematical publications, 1940-

Published: Providence, RI : The Society, c1996-

Web Link: [MathSciNet](#) 

Actions

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 RefWorks

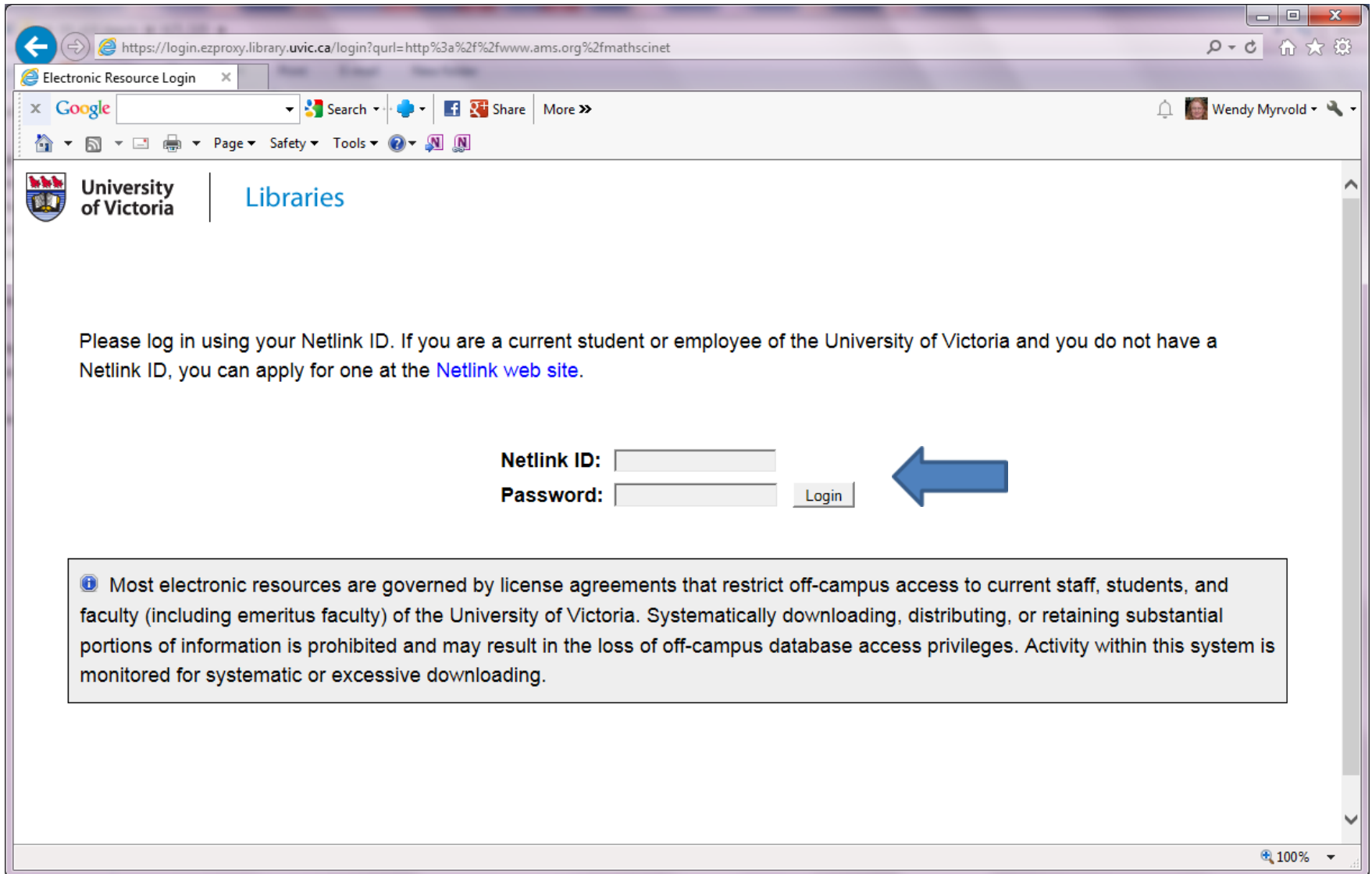
This item

- Record View
- [Staff View](#)

Mathscinet is the best search engine for mathematical journal and conference papers.

You can save time by getting the entry for your LaTeX .bib file from there.

If you are off-campus, you need to **login** with your netlink id and password:



https://login.ezproxy.library.uvic.ca/login?url=http%3a%2f%2fwww.ams.org%2fmathscinet

Electronic Resource Login

University of Victoria Libraries

Please log in using your Netlink ID. If you are a current student or employee of the University of Victoria and you do not have a Netlink ID, you can apply for one at the [Netlink web site](#).

Netlink ID:

Password:

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The MathSciNet search interface:

The screenshot shows a web browser window displaying the MathSciNet search interface. The browser's address bar shows the URL <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/>. The page header includes the American Mathematical Society logo, the MathSciNet logo, and the text "Mathematical Reviews" and "ISSN 2167-5163". Navigation links for "Home", "Preferences", "Free Tools", "About", and "Librarians" are visible. A user profile for "Wendy Myrvold" is shown in the top right. The main content area features a search interface with the following elements:

- Search Terms:** Four rows of search criteria, each with a dropdown menu and a text input field, followed by an "and" dropdown menu.
 - Author
 - Title
 - Journal
 - Anywhere
- Search and Clear buttons:** Two buttons located below the search terms.
- Time Frame:** Radio buttons for "Entire Database", "Year" (with a dropdown and input field), and "Year Range" (with two input fields and "to").
- Publication Type:** Radio buttons for "All", "Books", "Journals", and "Proceedings".
- Review Format:** Radio buttons for "PDF" and "HTML".

A small advertisement for "MathSciNet AMS eBooks Journals" is visible on the right side of the page.

You can change the search field in each box:

The screenshot shows the MathSciNet search interface. A dropdown menu is open over the search input fields, listing various search criteria. The 'Anywhere' option is currently selected and highlighted in blue. The search interface includes a search bar with a 'Search' button and a 'Clear' button. Below the search bar, there are three filter sections: 'Time Frame', 'Publication Type', and 'Review Format'. The 'Time Frame' section has radio buttons for 'Entire Database', 'Year', and 'Year Range'. The 'Publication Type' section has radio buttons for 'All', 'Books', 'Journals', and 'Proceedings'. The 'Review Format' section has radio buttons for 'PDF' and 'HTML'. At the bottom of the page, there is a footer with the AMS logo, 'Mirror Sites Providence, RI USA', and a zoom level of 100%.

Author
Author/Related
Title
Review Text
Journal
Institution Code
Series
MSC Primary/Secondary
MSC Primary
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Search Clear

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 Year
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Review Format
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Choose search terms and press **search**:

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Search Terms

Anywhere	▼	dominating set	and	▼
Anywhere	▼		and	▼
Anywhere	▼		and	▼
Anywhere	▼			

Time Frame

Entire Database

= Year


Year Range: to

Publication Type

All Books Journals Proceedings

Review Format

PDF HTML



Facts and Figures: 2,990,343 total publications

Help Support Mail

Choosing just dominating set yields 2076 hits. It's easier to look at them 100 per page.

The screenshot shows a web browser displaying the MathSciNet search results page. The search query is "Anywhere=(dominating set)". The results show 2076 matches, with the first 100 results displayed. A blue arrow points to the "Show first 100 results" link. The page includes navigation links for Home, Preferences, Help, Support Mail, and Terms of Use. The MathSciNet logo and ISSN 2167-5163 are visible. The search results list five entries, each with a checkbox, a status label (Prelim or Reviewed), the author(s), the title, the journal information, and a "Get This?" button. The first entry is MR3137868 by Wawrzyniak, Wojciech; the second is MR3082725 by Venkatakrisnan, Y. B.; Swaminathan, V.; the third is MR3126924 by Xiao, Mingyu; Kloks, Ton; Poon, Sheung-Hung; the fourth is MR3126912 by Luo, Weizhong; Wang, Jianxin; Feng, Qilong; Guo, Jiong; Chen, Jianer; and the fifth is MR3126677 by Tokunaga, Shin-ichi.

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Matches: 2076 Show first 100 results Select Page: Previous 1 2 3 4 5 6 Next

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Publications results for "Anywhere=(dominating set)"

- MR3137868** Prelim Wawrzyniak, Wojciech; A strengthened analysis of a local algorithm for the minimum dominating set problem in planar graphs. *Inform. Process. Lett.* 114 (2014), no. 3, 94–98. [Get This?](#)
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- MR3082725** Reviewed Venkatakrisnan, Y. B.; Swaminathan, V. Bipartite theory on neighbourhood dominating and global dominating sets of a graph. *Bol. Soc. Parana. Mat.* (3) 32 (2014), no. 1, 175–181. 05C69 [Get This?](#)
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- MR3126924** Prelim Xiao, Mingyu; Kloks, Ton; Poon, Sheung-Hung; New parameterized algorithms for the edge dominating set problem. *Theoret. Comput. Sci.* 511 (2013), 147–158. [Get This?](#)
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- MR3126912** Prelim Luo, Weizhong; Wang, Jianxin; Feng, Qilong; Guo, Jiong; Chen, Jianer; Improved linear problem kernel for planar connected dominating set. *Theoret. Comput. Sci.* 511 (2013), 2–12. [Get This?](#)
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- MR3126677** Prelim Tokunaga, Shin-ichi; Dominating sets of maximal outerplanar graphs. *Discrete Appl. Math.* 161 (2013), no. 18, 3097–3099. [Get This?](#)
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It's hard to find applications papers with this many hits. I used google instead.

Hint: Theses, survey papers, and the introductions of papers can reference papers on applications.


Some keywords:

facility location, chess- queen's problem, sets of representatives, land surveying, communication networks, sensor networks, efficient power management, clustering, resource allocation, voting, locating servers, storing location information, distributed computation of minimum spanning tree, energy of graphs, encryption, routing in mobile ad-hoc networks, analysis of social networks, football pool problem.

Choose search terms and press **search**:

Browser: <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/>

Navigation: Home | Preferences | Free Tools | About | Librarians | Terms of Use

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Publications | Authors | Journals | Citations

Search Terms

Anywhere	dominating set	and
Anywhere	facility location	and
Anywhere		and
Anywhere		

Time Frame


- Entire Database
- = Year
- Year Range: to

Publication Type

- All
- Books
- Journals
- Proceedings

Review Format

- PDF
- HTML



Facts and Figures: 2,990,343 total publications

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http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/search/publications.html?pg4=ALLF&s4=dominating+set&co4=AND&pg5=ALLF&s5=facility+location&co5=AND&pg6=ALLF&s6=&co6=AND&pg7=ALLF&s7=&co7=AN

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Matches: 15

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Publications results for "Anywhere=(dominating set) AND Anywhere=(facility location)"

- MR2726164** **Reviewed** Kalcsics, Jörg The multi-facility median problem with pos/neg weights on general graphs. *Comput. Oper. Res.* 38 (2011), no. 3, 674–682. 90B80 (05C85 90C35) [Get This?](#)
[PDF](#) | [Clipboard](#) | [Journal](#) | [Article](#)
- MR2600038** **Reviewed** Berman, Oded; Drezner, Zvi; Krass, Dmitry Generalized coverage: new developments in covering location models. *Comput. Oper. Res.* 37 (2010), no. 10, 1675–1687. (Reviewer: Jack Brimberg) 90B80 (90C90) [Get This?](#)
[PDF](#) | [Clipboard](#) | [Journal](#) | [Article](#)
- MR2742566** **Reviewed** Combinatorial optimization and applications. Proceedings of the 3rd Annual International Conference (COCOA 2009) held in Huangshan, June 10–12, 2009. Edited by Ding-Zhu Du, Xiaodong Hu and Panos M. Pardalos. *Lecture Notes in Computer Science, 5573*. Springer, Berlin, 2009. front matter+542 pp. ISBN: 978-3-642-02025-4; 3-642-02025-9 90-06 (05-XX 68-06 90B10 90B35 90C27) [Get This?](#)
[PDF](#) | [Clipboard](#) | [Series](#) | [Book](#)
- MR2742567** **Reviewed** Combinatorial optimization and applications. Proceedings of the Second International Conference (COCOA 2008) held in St. John's, NL, August 21–24, 2008. Edited by Boting Yang, Ding-Zhu Du and CaoAn Wang. *Lecture Notes in Computer Science, 5165*. Springer, Berlin, 2008. front matter+480 pp. ISBN: 978-3-540-85096-0; 3-540-85096-1 90-02 (05C85 68Q25 68R10 90B10 90B35 90C27 90C60) [Get This?](#)
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If you find a LNCS or conference paper, look for the corresponding journal paper. If you find one, reference the journal paper instead.

Click on a MR number to see the summary:

The screenshot shows a web browser window displaying a search result on MathSciNet. The browser's address bar shows the URL: http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&pg4=ALLF&pg5=ALLF&pg6=ALLF&pg7=ALLF&pg8=ET&review_format=html&sl=doi. The browser tabs include 'mathscinet - Summon' and 'MR: Publications results for ...'. The page header features the MathSciNet logo, 'AMERICAN MATHEMATICAL SOCIETY', 'MathSciNet Mathematical Reviews', and 'ISSN 2167-5163'. Navigation links include 'Home', 'Preferences', 'Help', 'Support Mail', and 'Terms of Use'. A 'University of Victoria' logo and a 'MOBILE ACCESS' icon are also present. The main content area shows a search result for 'MR1730761 (2000i:90003)' with a 'Reviewed' tag. The title is 'A unified approach to network location problems. (English summary)'. The authors are 'Nickel, Stefan(D-KSRL); Puerto, Justo(E-SEVL-OR)'. The publication details are 'Networks 34 (1999), no. 4, 283-290. 90B10 (90B80)'. A 'Citations' box shows 'From References: 7' and 'From Reviews: 1'. A 'Get This?' button is located below the citation box. The summary text is: 'Summary: "We introduce a new type of single-facility location problem on networks which includes as special cases most of the classical criteria in the literature. Structural results as well as a finite dominating set for the optimal locations are developed. Also, the extension to the multifacility case is discussed. The frontiers for finding easy finite dominating sets are shown by a counterexample."' A note at the bottom of the summary says '{For the entire collection see MR1730754 (2000h:90004).}'. The footer of the page includes the URL 'http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/index.html' and 'Reviewed by James G. Morris'.

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Publications results for "Anywhere=(dominating set) AND Anywhere=(facility location)"

MR1730761 (2000i:90003) Reviewed

Nickel, Stefan(D-KSRL); Puerto, Justo(E-SEVL-OR)

A unified approach to network location problems. (English summary)

Centrality concepts in network location.
Networks 34 (1999), no. 4, 283-290.
90B10 (90B80)

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Citations
From References: 7
From Reviews: 1

Summary: "We introduce a new type of single-facility location problem on networks which includes as special cases most of the classical criteria in the literature. Structural results as well as a finite dominating set for the optimal locations are developed. Also, the extension to the multifacility case is discussed. The frontiers for finding easy finite dominating sets are shown by a counterexample."

{For the entire collection see MR1730754 (2000h:90004).}

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where=(dominating set) AND Anywhere=(facility location)"
03) Reviewed
uerto, Justo(E-SEVL-OR)
network location problems. (English summary)
Centrality concepts in network location.
Networks 34 (1999), no. 4, 283–290.
90B10 (90B80)
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Citations
From References: 7
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Summary: "We introduce a new type of single-facility location problem on networks which includes as special cases most of the classical criteria in the literature. Structural results as well as a finite dominating set for the optimal locations are developed. Also, the extension to the multifacility case is discussed. The frontiers for finding easy finite dominating sets are shown by a counterexample."

{For the entire collection see MR1730754 (2000h:90004).}

Reviewed by James G. Morris

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```
@article {MR1730761,  
  AUTHOR = {Nickel, Stefan and Puerto, Justo},  
  TITLE = {A unified approach to network location problems},  
  NOTE = {Centrality concepts in network location},  
  JOURNAL = {Networks},  
  FJOURNAL = {Networks. An International Journal},  
  VOLUME = {34},  
  YEAR = {1999},  
  NUMBER = {4},  
  PAGES = {283--290},  
  ISSN = {0028-3045},  
  CODEN = {NTWKAA},  
  MRCLASS = {90B10 (90B80)},  
  MRNUMBER = {1730761 (2000i:90003)},  
  MRREVIEWER = {James G. Morris},  
  DOI = {10.1002/(SICI)1097-0037(199912)34:4<283::AID-NET8>3.3.CO;2-U},  
  URL = {http://dx.doi.org/10.1002/(SICI)1097-0037(199912)34:4<283::AID-NET8>3.3.CO;2-U},  
}
```

Matches: 1

As/is, you cite this paper as:
`\cite{MR1730761}`

I always change this keyword to something that makes more sense to me:

`\cite{Nickel1999}` or maybe
`\cite{facility_location}`

If your .bib file is survey.bib, your paper say challenge.tex should have at the very end:

```
\bibliographystyle{plain}  
\bibliography{survey}  
\end{document}
```

It's OK to have references you do not use in your .bib file. LaTeX will number the ones you do use and put them into your references.

To typeset a big paper, I used a command file say `type_com` that had:

```
cat 0_abstract.tex 1_intro.tex 2_computer.tex  
3_binary_grace.tex 4_twin.tex 5_parity.tex  
6_grace_cases.tex 7_alg.tex 8_open.tex >  
gracefulForests.tex
```

```
pdflatex gracefulForests.tex  
bibtex gracefulForests  
pdflatex gracefulForests.tex  
pdflatex gracefulForests.tex
```

To typeset: `source type_com`

The `pdflatex` had the advantage of allowing us to include `.pdf` pictures instead of just `.eps`

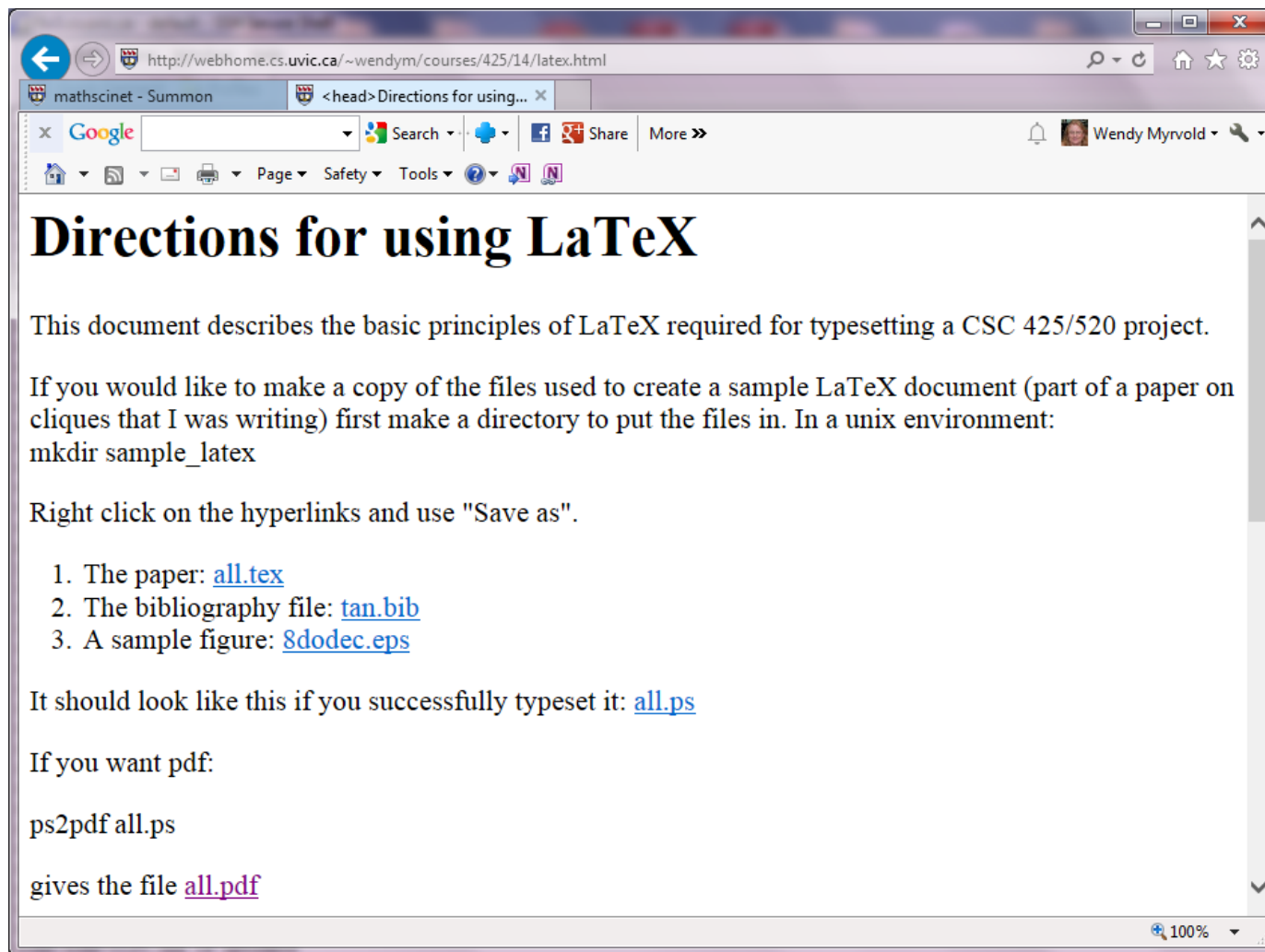
MathSciNet keeps track of authors.
If you click on the author name of a paper it will show you all the papers that person wrote. It distinguishes between people with the same name.

For a thesis: I would search for all the papers of the top researchers for my problem to make sure I had all the references I should have.

For judging quality:

1. Published in a good journal or conference (Australia has some rankings as A, B, C that could be used as a guideline).
2. On topic (straight dominating set and not a variant problem), for applications, paper has more focus than usual on that particular application.
3. Quality results.
4. Established researchers are more likely to write reputable papers.

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To give me space for comments, please use:

```
\documentclass[12pt]{article}
\renewcommand{\baselinestretch}{1.5}
```