

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

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mathscinet

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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 for 'mathscinet' are displayed, showing 1,126 results. A recommendation box highlights MathSciNet as a specialized collection. A blue arrow points to the MathSciNet link in the recommendation box.

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

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**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**

by Canadian Research Knowledge Network and American Mathematical Society  
1979  
Mathematics

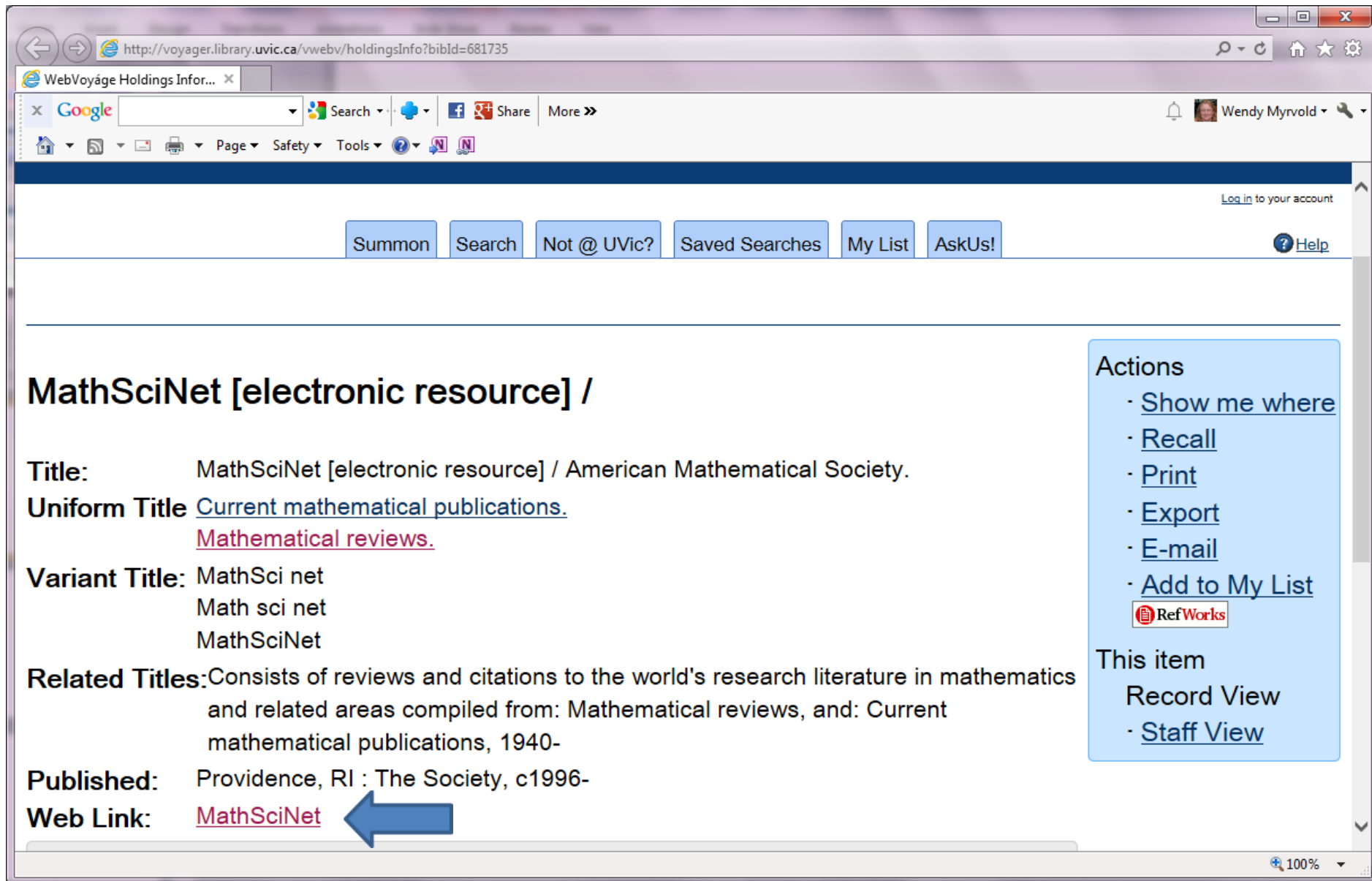
Web Resource: Available, QA1, Internet Resource

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Click on the **MathSciNet** web link:



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## 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](#)

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Record View

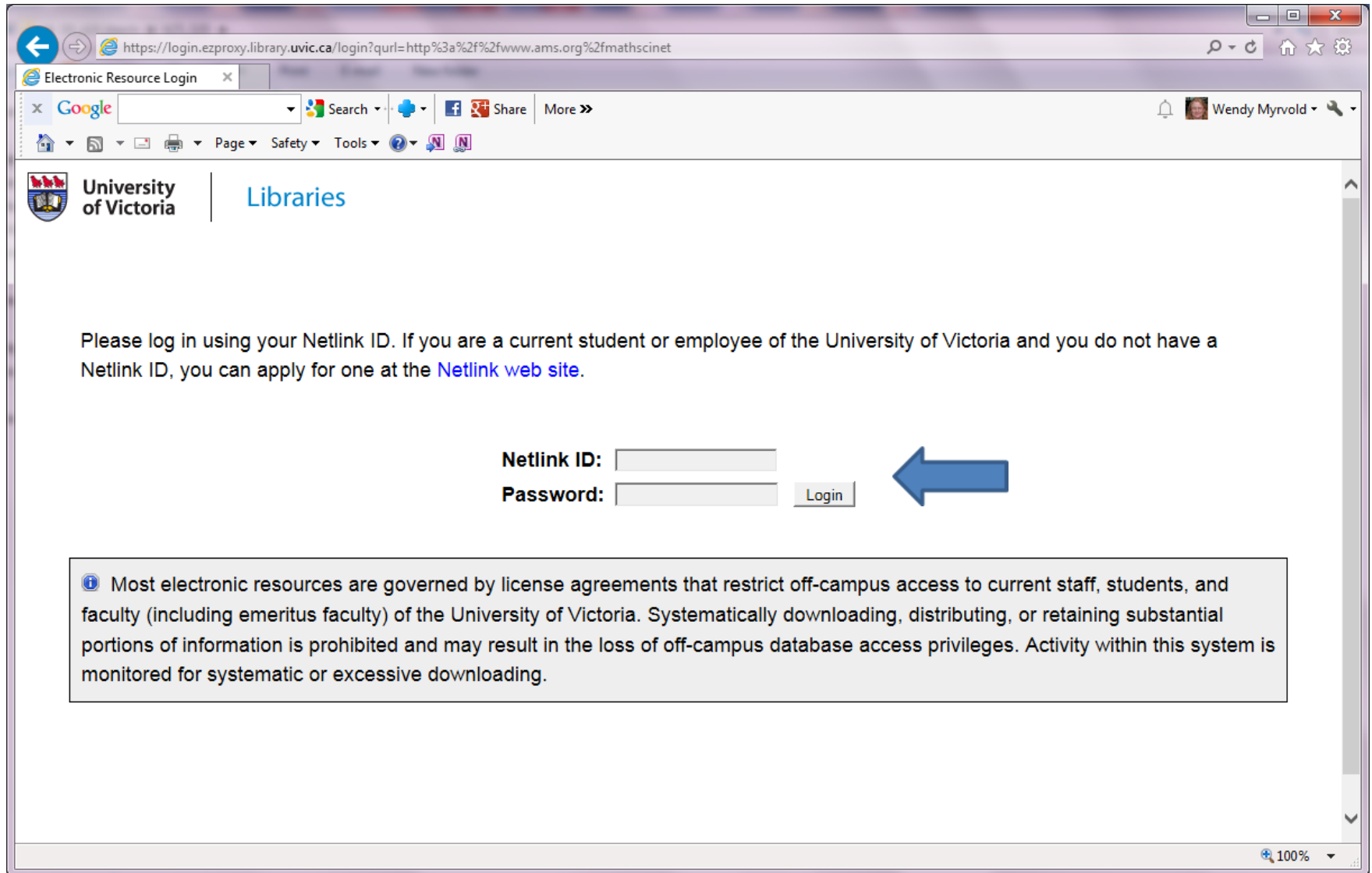
- [Staff View](#)

100%

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:



Electronic Resource Login

University of Victoria Libraries

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Netlink ID:

Password:

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# The MathSciNet search interface:

The screenshot shows the MathSciNet search interface within a web browser window. The browser's address bar displays the URL `http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/`. The browser's tabs include "mathscinet - Summon" and "MR: Search Publications dat...". The browser's toolbar shows the Google search engine, a search button, and social media sharing options (Facebook, Twitter, LinkedIn, etc.). The MathSciNet logo is visible in the top left corner, along with the text "AMERICAN MATHEMATICAL SOCIETY", "MathSciNet", "Mathematical Reviews", and "ISSN 2167-5163". The top navigation bar includes links for "Home", "Preferences", "Free Tools", "About", and "Librarians". The "University of" logo is partially visible on the right. The main content area features a search form with four input fields: "Author", "Title", "Journal", and "Anywhere". Each field has a dropdown menu to the left and a "and" button to the right. Below the search fields are "Search" and "Clear" buttons. The "Time Frame" section includes radio buttons for "Entire Database" and "Year Range", with a "Year" input field. The "Publication Type" section includes radio buttons for "All", "Books", "Journals", and "Proceedings". The "Review Format" section includes radio buttons for "PDF" and "HTML". A small advertisement for "MathSciNet AMS eBooks Journals" is visible on the right side of the page.

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

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Wendy Myrvold

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Publications Authors Journals Citations

**Search Terms**

Author and  
Title and  
Journal and  
Anywhere

Search Clear

**Time Frame**

☒ Entire Database  
☐ Year   
☐ Year Range:  to

**Publication Type**

☒ All ☐ Books ☐ Journals ☐ Proceedings

**Review Format**

☐ PDF ☒ HTML

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# You can change the search field in each box:

The screenshot shows the MathSciNet search interface in a web browser. A dropdown menu is open over the first search box, listing various search fields. The 'Anywhere' option is currently selected and highlighted in blue. The interface includes navigation links at the top (Home, Preferences, Free Tools, About, Librarians, Terms of Use) and a University of Victoria logo. The search area contains three input boxes with 'and' connectors between them. Below the search boxes are buttons for 'Search' and 'Clear'. Further down, there are sections for 'Time Frame' (with radio buttons for 'Entire Database', 'Year', and 'Year Range'), 'Publication Type' (with radio buttons for 'All', 'Books', 'Journals', 'Proceedings'), and 'Review Format' (with radio buttons for 'PDF' and 'HTML'). At the bottom, it states 'Facts and Figures: 2,990,343 total publications' and provides links for 'Help' and 'Support Mail'. The AMS logo is in the bottom left corner, and the mirror site location 'Providence, RI USA' is in the bottom right corner.

mathscinet - Summon MR: Search Publications dat... X

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Title  
Review Text  
Journal  
Institution Code  
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☐ 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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AMS

Mirror Sites Providence, RI USA



# Choose search terms and press **search**:

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

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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

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AMS

Mirror Sites:



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

The screenshot shows a web browser window displaying the MathSciNet search results page. The URL in the address bar is <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/search/publications.html?pg4=ALLF&s4=dominating+set&co4=AND&pg5=ALLF&s5=&co5=AND&pg6=ALLF&s6=&co6=AND&pg7=ALLF&s7=&co7=AND&Submit=Sea>. The page header includes the MathSciNet logo, ISSN 2167-5163, and navigation links like Home, Preferences, Help, Support Mail, and Terms of Use. A blue arrow points to the 'Show first 100 results' link. Below the search results, there are five entries, each with a checkbox, a MathSciNet ID, a status (Prelim or Reviewed), and a brief description of the paper. The first entry is MR3137868 by Wawrzyniak, Wojciech, titled 'A strengthened analysis of a local algorithm for the minimum dominating set problem in planar graphs'. The second entry is MR3082725 by Venkatakrishnan, Y. B.; Swaminathan, V., titled 'Bipartite theory on neighbourhood dominating and global dominating sets of a graph'. The third entry is MR3126924 by Xiao, Mingyu; Klops, Ton; Poon, Sheung-Hung, titled 'New parameterized algorithms for the edge dominating set problem'. The fourth entry is MR3126912 by Luo, Weizhong; Wang, Jianxin; Feng, Qilong; Guo, Jiong; Chen, Jianer, titled 'Improved linear problem kernel for planar connected dominating set'. The fifth entry is MR3126677 by Tokunaga, Shin-ichi, titled 'Dominating sets of maximal outerplanar graphs'. Each entry has links for PDF, Clipboard, Journal, and Article, and a 'Get This?' button.

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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. [PDF](#) [Clipboard](#) [Journal](#) [Article](#) [Get This?](#)
- ☐ **MR3082725** **Reviewed** Venkatakrishnan, 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 [PDF](#) [Clipboard](#) [Journal](#) [Article](#) [Get This?](#)
- ☐ **MR3126924** **Prelim** Xiao, Mingyu; Klops, Ton; Poon, Sheung-Hung; New parameterized algorithms for the edge dominating set problem. *Theoret. Comput. Sci.* 511 (2013), 147–158. [PDF](#) [Clipboard](#) [Journal](#) [Article](#) [Get This?](#)
- ☐ **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. [PDF](#) [Clipboard](#) [Journal](#) [Article](#) [Get This?](#)
- ☐ **MR3126677** **Prelim** Tokunaga, Shin-ichi; Dominating sets of maximal outerplanar graphs. *Discrete Appl. Math.* 161 (2013), no. 18, 3097–3099. [PDF](#) [Clipboard](#) [Journal](#) [Article](#) [Get This?](#)

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

Search bar:  Search

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

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### 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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AMS electronic products are now mobile! [Learn more](#)

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=AND

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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)  
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)  
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)  
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)  
PDF | Clipboard | Series | Book 

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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 MathSciNet search result. 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](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's search bar contains the text "MR: Publications results for ...". The page header includes the MathSciNet logo, the ISSN 2167-5163, and navigation links: Home, Preferences, Help, Support Mail, Terms of Use. The University of Victoria logo is also visible. The main content area shows the search results for "Anywhere=(dominating set) AND Anywhere=(facility location)". The first result is MR1730761 (2000i:90003), reviewed by James G. Morris. The title is "A unified approach to network location problems." (English summary). The summary states: "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." The page also includes a "Citations" section showing 7 references and 1 review. The footer shows the URL <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/index.html> and a 100% zoom level.

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Select alternative format

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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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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where=(dominating set) AND Anywhere=(facility location)"  
03) Reviewed  
Querto, Justo(E-SEVL-OR)  
**network location problems.** (English summary)  
Centrality concepts in network location.  
*Networks* 34 (1999), no. 4, 283–290.  
90B10 (90B80)  
PDF | Clipboard | Journal | Article | Make Link

**Citations**  
From References: 7  
From Reviews: 1

Get This?

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



# Use your mouse to copy/paste this into a .bib file (e.g. challenge.bib) for your paper:

http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/search/publications.html?fmt=bibtex&pgl=MR&s1=1730761

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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 challenge.bib, your paper  
say challenge.tex should have at the very  
end:

```
\bibliographystyle{plain}  
\bibliography{challenge}  
\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.

There is a web page with LaTeX directions available from our class web page:

---

## Directions for using LaTeX

This document describes the basic principles of LaTeX required for typesetting a CSC 422/522 project.

If you would like to make a copy of the files used to create a sample LaTeX document (part of a paper on cliques that I was writing) first make a directory to put the files in. In a unix environment:

```
mkdir sample_latex
```

Then fire up your favorite web browser and get the example files. The files you want to copy are:

1. The paper: [Myrvold.tex](#)

2. The bibliography file: [Myrvold.bib](#)

I got as many of the .bib entries as I could by using copy and paste from Mathscinet. This avoids a lot of typing!

3. A sample figure: [Myrvold\\_8dodec.eps](#)

4. It should look like this if you successfully typeset it:

[Myrvold.pdf](#)

If you cut the part below just below the line, it will give a latex document which describes what to do. It is missing some of the header statements such as `\begin{document}` which you can steal from the file Myrvold.tex described above.

To give me space for comments, please use:

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