

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

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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

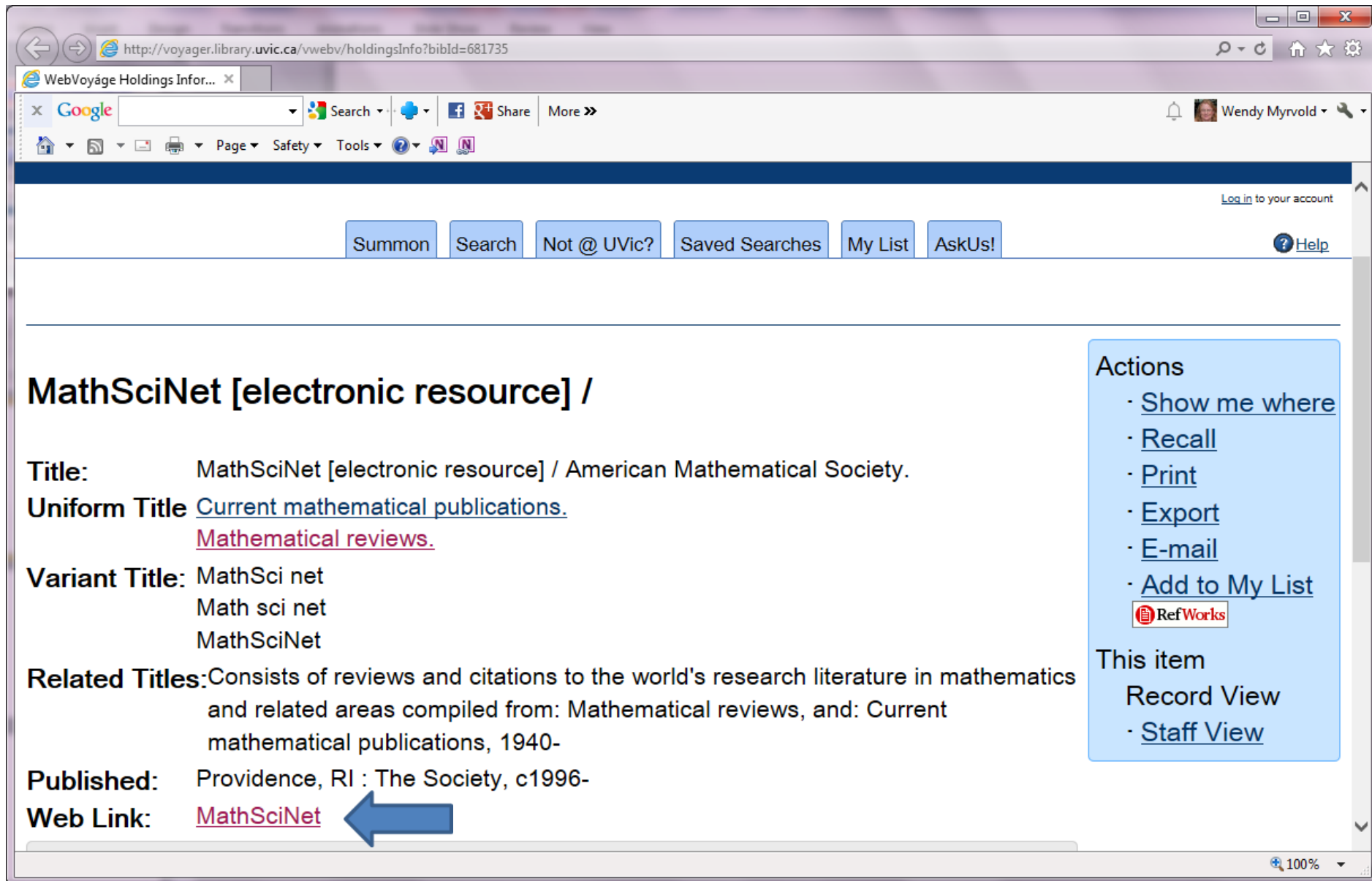
Web Resource: Available, QA1, Internet Resource

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Click on the **MathSciNet** web link:



The screenshot shows a web browser window with the URL <http://voyager.library.uvic.ca/vwebv/holdingsInfo?bibId=681735>. The browser's address bar and search bar are visible. The page content includes a navigation bar with buttons for Summon, Search, Not @ UVic?, Saved Searches, My List, and AskUs!. The main content area displays the title "MathSciNet [electronic resource] /" and a list of metadata fields: Title, Uniform Title, Variant Title, Related Titles, Published, and Web Link. The Web Link field contains the text "MathSciNet" and is highlighted by a large blue arrow. To the right of the main content, there is a sidebar with a section titled "Actions" containing links for Show me where, Recall, Print, Export, E-mail, and Add to My List. Below this is a section titled "This item" with links for Record View and Staff View. The browser's status bar at the bottom indicates a 100% zoom level.

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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- [Recall](#)
- [Print](#)
- [Export](#)
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- [Add to My List](#)

 RefWorks

This item

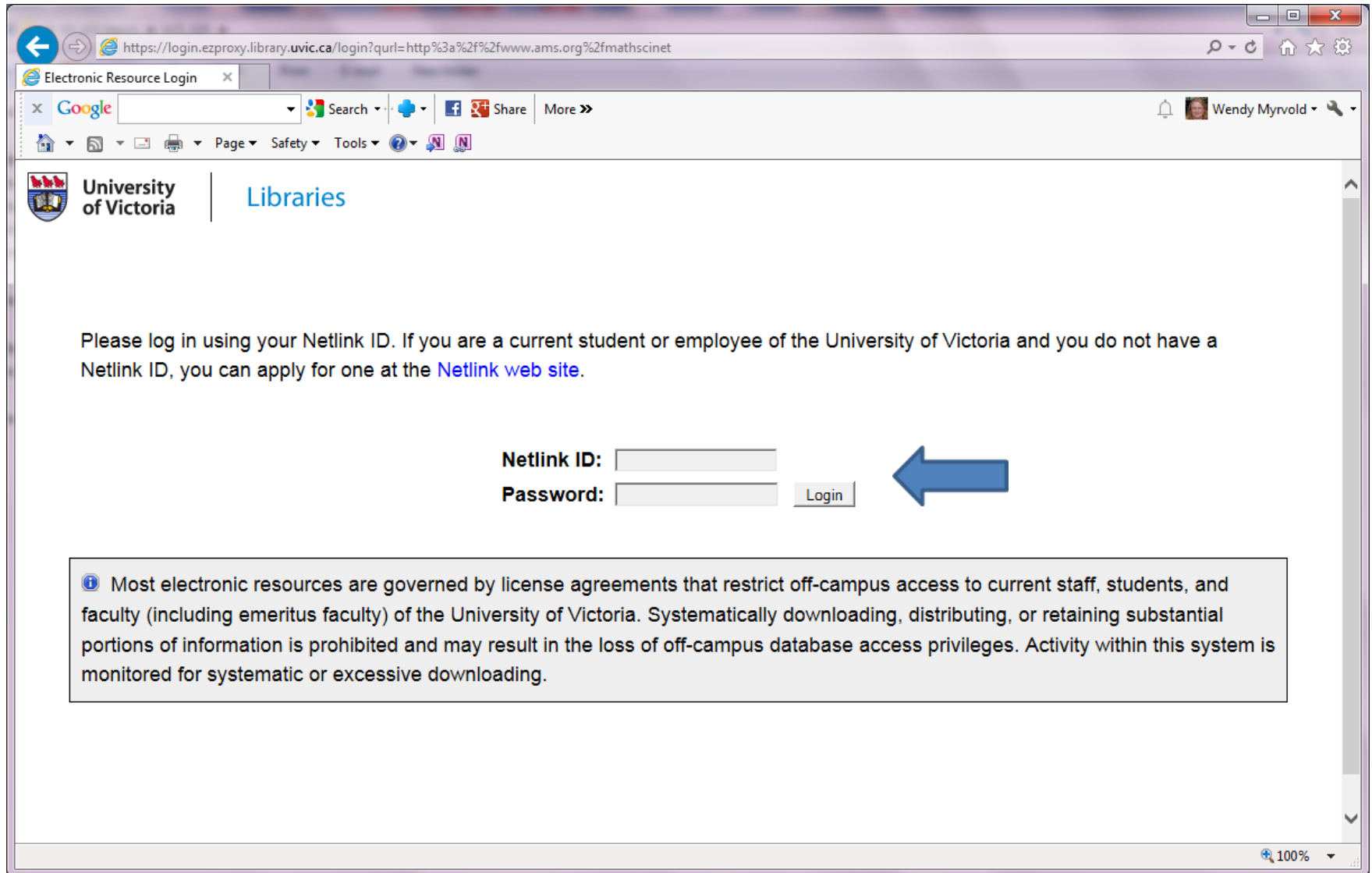
Record View

- [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:




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University of Victoria Libraries

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The MathSciNet search interface:

The screenshot shows the MathSciNet search interface within a web browser. 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 bar, a "Search" button, and social media links for Facebook and Google+. The browser's status bar at the bottom shows the page is zoomed to 100%.

The MathSciNet interface features a navigation bar with links for [Home](#), [Preferences](#), [Free Tools](#), [About](#), and [Librarians](#). The "University of" logo is also visible. Below the navigation bar, the "Publications" tab is selected, and the "Authors", "Journals", and "Citations" tabs are also visible. The "Search Terms" section contains four input fields: "Author", "Title", "Journal", and "Anywhere", each with a dropdown menu and a "Search" button. The "Time Frame" section includes radio buttons for "Entire Database", "Year", and "Year Range", with corresponding input fields. The "Publication Type" section includes radio buttons for "All", "Books", "Journals", and "Proceedings". The "Review Format" section includes radio buttons for "PDF" and "HTML".

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Search Terms

Author and

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Journal and

Anywhere

Time Frame

☒ Entire Database

☐ Year

☐ Year Range: to

Publication Type

☒ All ☐ Books ☐ Journals ☐ Proceedings

Review Format

☐ PDF ☒ HTML

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 filters for Time Frame, Publication Type, and Review Format. 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 Sites dropdown is set to 'Providence, RI USA' in the bottom right.

Search fields in the dropdown menu:

- Author
- Author/Related
- Title
- Review Text
- Journal
- Institution Code
- Series
- MSC Primary/Secondary
- MSC Primary
- MR Number
- Reviewer
- Anywhere**
- References
- Anywhere

Search filters:

- Time Frame**
 - ☒ Entire Database
 - ☐ Year
 - ☐ Year Range: to
- Publication Type**
 - ☒ All ☐ Books ☐ Journals ☐ Proceedings
- Review Format**
 - ☐ PDF ☒ HTML

Navigation links: Home, Preferences, Free Tools, About, Librarians, Terms of Use

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Search Terms

Anywhere	dominating set	and
Anywhere		and
Anywhere		and
Anywhere		

Time Frame

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☐ 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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Mirror Sites [Providence, RI USA](#)

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

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

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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** 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 [Get This?](#)
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- ☐ **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. [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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http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/index.html

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/>

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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

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AMS Mirror Sites [Providence, RI USA](#)

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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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)
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- ☐ **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)
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- ☐ **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)
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- ☐ **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)
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Click on a MR number to see the summary:

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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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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."

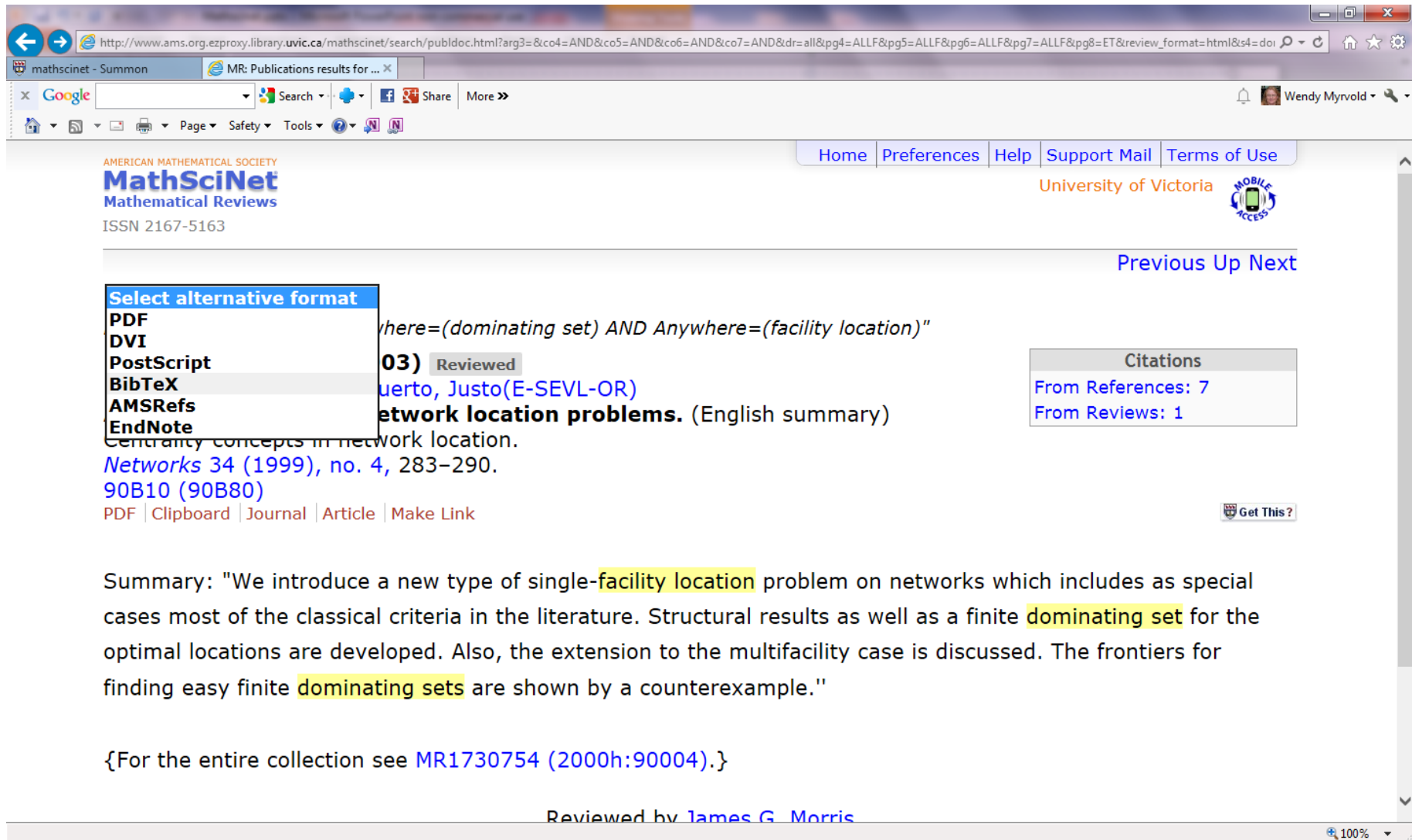
{For the entire collection see [MR1730754 \(2000h:90004\)](#).}

Reviewed by [James G. Morris](#)

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The screenshot shows a web browser window displaying a MathSciNet article. The browser's address bar shows a URL from the University of Victoria library. The MathSciNet header includes the American Mathematical Society logo, the journal title "MathSciNet Mathematical Reviews", and the ISSN 2167-5163. Navigation links for Home, Preferences, Help, Support Mail, and Terms of Use are visible. The article title is "Centrality concepts in network location." and the author is "Querto, Justo(E-SEVL-OR)". A dropdown menu is open over the article title, showing options: PDF, DVI, PostScript, BibTeX (highlighted), AMSRefs, and EndNote. The article 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 article is reviewed by James G. Morris. Citations are listed as 7 from references and 1 from reviews.

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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

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.

CSC 425/520: only need 5 applications, 5 algorithms, 5 theory, but please try to choose nice papers.

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.

I'd like to see each student choose a variety of applications and not all 5 in the same area.

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 445/545 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: [Wendy_Myrvold.tex](#)

2. The bibliography file: [Wendy_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: [Wendy_Myrvold_8dodec.eps](#)

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

[Wendy_Myrvold.pdf](#)

To give me space for comments, please use:

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