

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

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UVic Libraries - search everything

mathscinet

Search

[Advanced search](#)

- Exclude newspaper articles
- Exclude book reviews
- Show peer-reviewed articles only

powered by [Summon](#) TM

POPULAR LINKS

- Quick links
 - Book a study room
 - Log in to Refworks
 - Renew or recall
 - Request an interlibrary loan
 - Find course reserves
 - Find an available computer
- + Frequently asked questions

Spotlight

1

100%

Click on MathSciNet

The screenshot shows a web browser window with the URL <http://uvic.summon.serialssolutions.com/search?s.q=mathscinet>. The page is from the University of Victoria Libraries. A search for "mathscinet" has been performed, returning 1,126 results. A recommendation box highlights MathSciNet as a specialized collection. A blue arrow points to the MathSciNet link in the recommendation. The page includes a search bar, navigation links, and a footer with the Summon logo.

mathscinet - Summon

University of Victoria Libraries

mathscinet

Search Advanced Search

Keep search refinements New search

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

by Canadian Research Knowledge Network and American Mathematical Society
1979
Mathematics

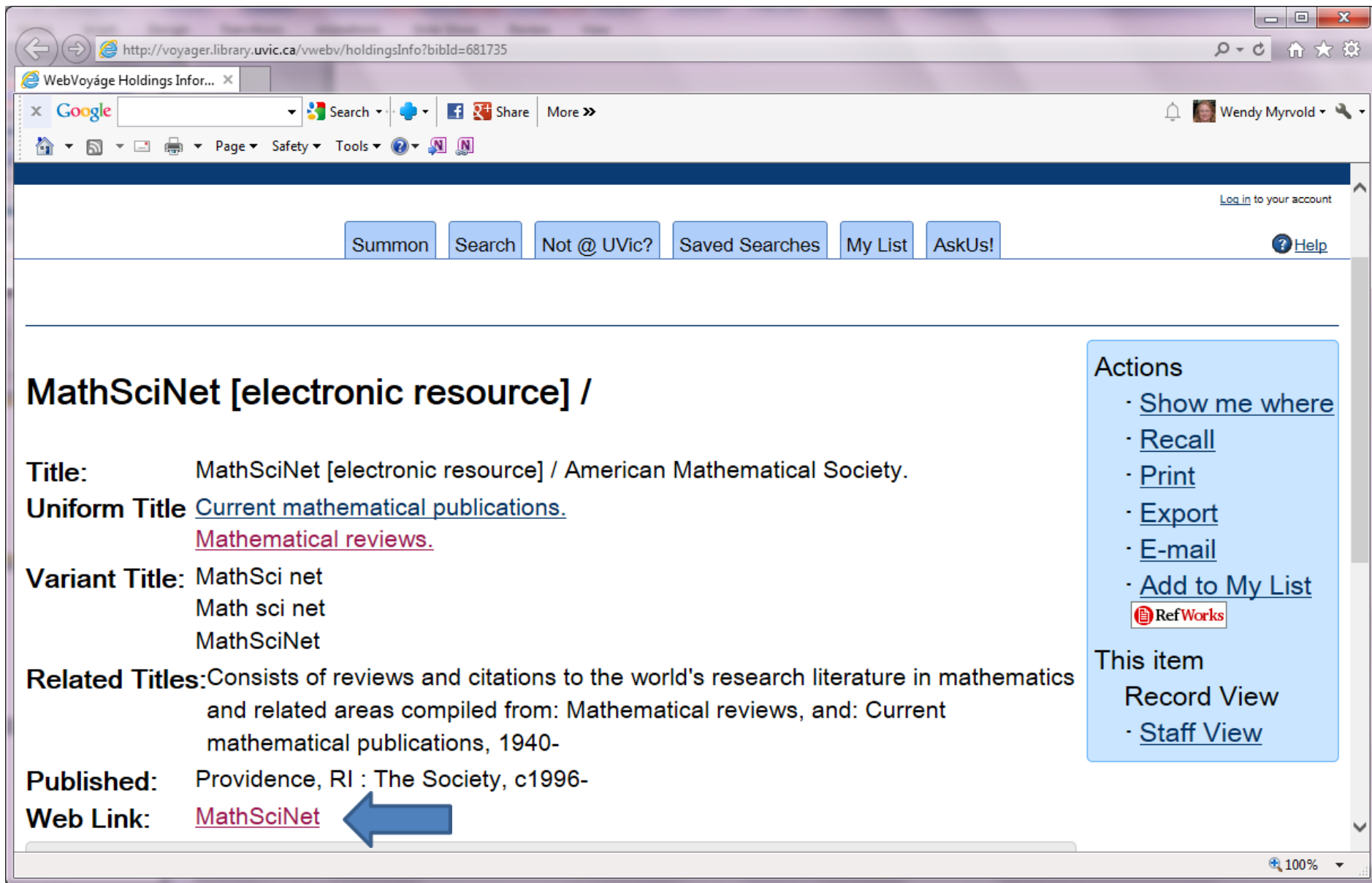
Web Resource: Available, QA1, Internet Resource

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Personalized Search Saved Items (

100%


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 has 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 record for "MathSciNet [electronic resource] /". The record details include:

- 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](#)

A blue arrow points to the "MathSciNet" web link. On the right side of the record, there is an "Actions" menu with the following options:

- [Show me where](#)
- [Recall](#)
- [Print](#)
- [Export](#)
- [E-mail](#)
- [Add to My List](#)
-  RefWorks

Below the actions menu, there is a "This item" section with the following options:

- Record View
- [Staff View](#)

The browser's status bar at the bottom right shows "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:

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:

Most electronic resources are governed by license agreements that restrict off-campus access to current staff, students, and faculty (including emeritus faculty) of the University of Victoria. Systematically downloading, distributing, or retaining substantial portions of information is prohibited and may result in the loss of off-campus database access privileges. Activity within this system is monitored for systematic or excessive downloading.

The MathSciNet search interface:

The screenshot shows a web browser window with the URL <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/>. The browser's address bar shows the URL, and the page title is "mathscinet - Summon". The browser's search bar contains "Google". The page header includes the American Mathematical Society logo, the MathSciNet logo, and the text "Mathematical Reviews" and "ISSN 2167-5163". The navigation menu includes "Home", "Preferences", "Free Tools", "About", and "Librarians". The main content area has tabs for "Publications", "Authors", "Journals", and "Citations". The "Search Terms" section has four rows: "Author", "Title", "Journal", and "Anywhere", each with a dropdown menu, a text input field, and a "and" dropdown menu. Below the search terms are "Search" and "Clear" buttons. The "Time Frame" section has radio buttons for "Entire Database", "Year" (with a dropdown and input field), and "Year Range" (with two input fields and "to"). The "Publication Type" section has radio buttons for "All", "Books", "Journals", and "Proceedings". The "Review Format" section has radio buttons for "PDF" and "HTML". A small advertisement for "MathSciNet AMS eBooks Journals" is visible on the right side of the page.

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MathSciNet
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Home Preferences Free Tools About Librarians
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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

MathSciNet
AMS eBooks
Journals

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 sections for filtering results: '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 '100%' zoom level.

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

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MathSciNet
AMS eBooks
Journals
AMS electronic products are now mobile!
Learn more

Search Clear

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

AMS

Mirror Sites Providence, RI USA

100%

Choose search terms and press **search**:

The screenshot shows the MathSciNet search interface. At the top, there is a navigation bar with links for Home, Preferences, Free Tools, About, Librarians, and Terms of Use. Below this, the MathSciNet logo and ISSN 2167-5163 are displayed. The main search area features a search bar with the text "dominating set" and a dropdown menu set to "Anywhere". There are four search rows, each with a "Search" button and a "Clear" button. Below the search bar, there are three filter sections: "Time Frame" with radio buttons for "Entire Database", "Year", and "Year Range"; "Publication Type" with radio buttons for "All", "Books", "Journals", and "Proceedings"; and "Review Format" with radio buttons for "PDF" and "HTML". A banner on the right side of the search area promotes AMS electronic products. At the bottom, there is a footer with the AMS logo, a "Facts and Figures" link, and a "Mirror Sites" dropdown menu.

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Publications Authors Journals Citations

Search Terms

Anywhere and
Anywhere and
Anywhere and
Anywhere

Time Frame
 Entire Database
 Year
 Year Range: to

Publication Type
 All Books Journals Proceedings

Review Format
 PDF HTML

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

Facts and Figures: 2,990,343 total publications

[Help](#) [Support Mail](#)

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 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 like "Home", "Preferences", "Help", "Support Mail", and "Terms of Use". The MathSciNet logo and ISSN 2167-5163 are visible. The search results list several papers, each with a checkbox, a status label (e.g., "Prelim", "Reviewed"), the author(s), title, journal information, and a "Get This?" button. The first five results are:

- 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 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 [PDF](#) | [Clipboard](#) | [Journal](#) | [Article](#) [Get This?](#)
- 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. [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/>

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

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ISSN 2167-5163

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

[Help](#) | [Support Mail](#)

 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

mathscinet - Summon MR: Publications results for ...

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Matches: 15

Batch Download: **Reviews (HTML)** Retrieve Marked Retrieve First 50 Unmark All

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 browser's search bar contains "Google". The browser's address bar also shows "Wendy Myrvold".

The page header includes 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". The "University of Victoria" logo and "MOBILE ACCESS" icon are also present.

The main content area shows a search result for "Anywhere=(dominating set) AND Anywhere=(facility location)". The result is for MR1730761 (2000i:90003), reviewed by James G. Morris. The title is "A unified approach to network location problems." (English summary). The summary text is: "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 text "single-facility location", "dominating set", and "dominating sets" are highlighted in yellow. The text "{For the entire collection see MR1730754 (2000h:90004).}" is also present.

On the right side, there is a "Citations" box showing "From References: 7" and "From Reviews: 1". There is also a "Get This?" button.

The footer of the page shows the URL <http://www.ams.org.ezproxy.library.uvic.ca/mathscinet/index.html> and a zoom level of 100%.

Select BibTeX as alternative format to save yourself a lot of typing:

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DVI
PostScript
BibTeX
AMSRefs
EndNote

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)
PDF | Clipboard | Journal | Article | Make Link

Citations
From References: 7
From Reviews: 1

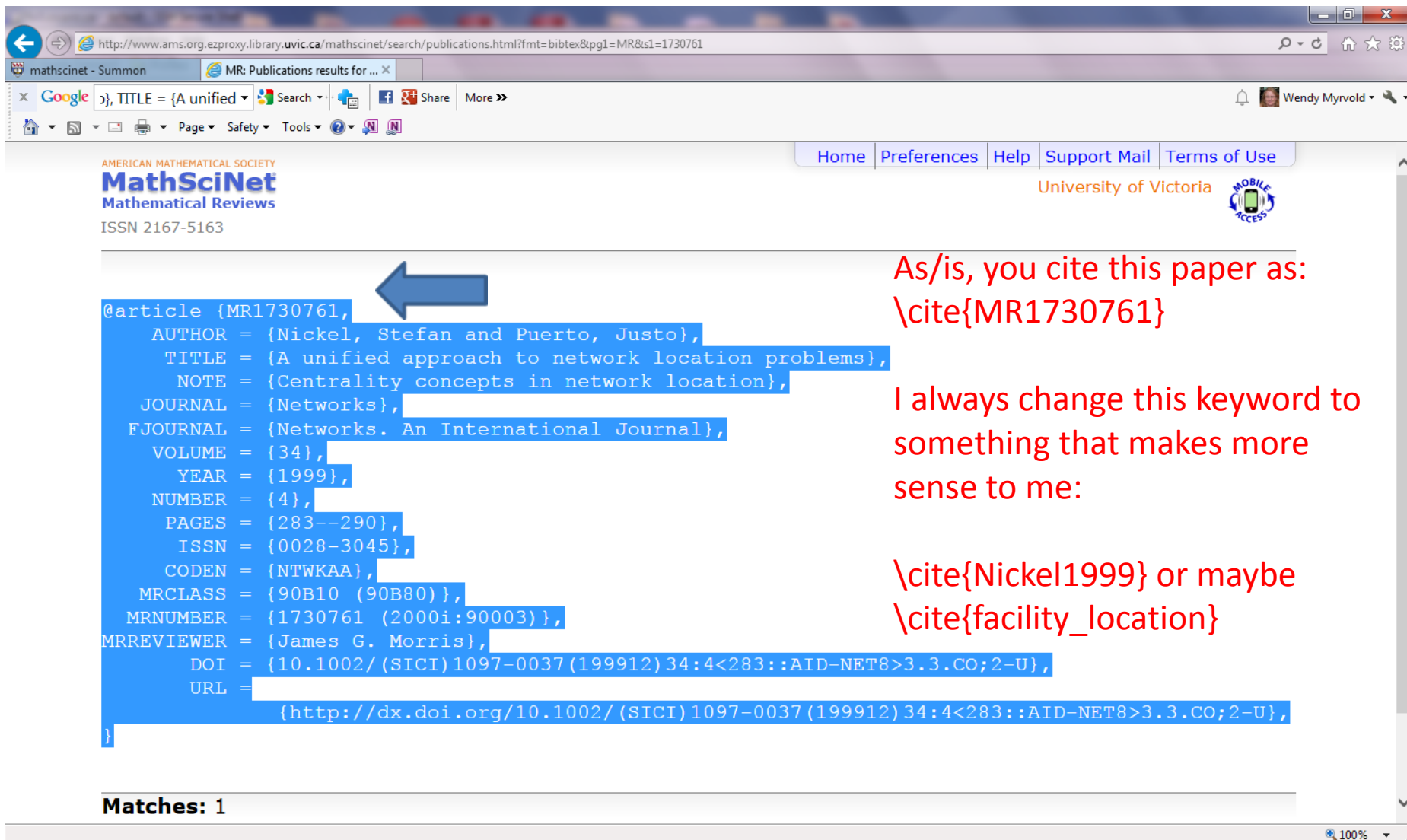
Get This?

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:



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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.

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}
```