Introduction to the Library

Three Keys to Unlock:
- Username/password (IT issued)
- Student card (circ desk activated)
- User ID/pin

To Give Access to:
- Electronic databases, e-books
- Book borrowing (30 days, max. 50 items)
- Account services (renewals, holds, ILL, etc.)

“Lock and Key” by warhead (warhead) under CC BY-NC 2.0 license. <https://www.flickr.com/photos/warhead/259127104/>
Introduction to the Library

- **Study Spaces**
  - Noise zones
  - 3rd and 4th floor silent areas
  - Group study rooms (2 or 4 people min.); only bookable through library website
  - Designated areas in some faculty buildings

- **Research Guides**
  - Collected resources in various formats
  - Tailored to discipline/program

Library Catalogue

Access points for:

- Books, ebooks, media
- Graduate links
- Research Guides

2 advanced searches:

1. Quick Search for ALL resources (Summons)
2. Books (Library Catalogue)
Advanced search for ALL library resources

- Can choose resource type
- Can choose where to search for term

Advanced search for books (Catalogue)

- Subject: electric vehicles
- Keyword: batter$
Ebooks are a growing area supporting anytime/anywhere access.
Find a book (print or electronic) on a subject you are interested in available through the library.

You can use QuickSearch, the library catalogue, or search in an eBook package.

Where is this book located?
Theses and Dissertations

- ProQuest Dissertations & Theses (through UOIT)
  - 2 million + theses & dissertations in all disciplines, 60,000 added yearly
  - 1861-1996: citations only; 1997-present: full-text (some exceptions)
  - Search by discipline and keyword, using special commands and limiters

- Open Access Theses & Dissertations (freely available on the web)
  - 2 million + theses & dissertations in all disciplines
  - Full-text (submitted by institutions & available through repositories)

- Theses Canada (freely available on the web)
  - Submitted voluntarily by participating institutions representing variety of disciplines
  - Electronic and microfiche format
E-Scholar (UOIT’s Repository)
Find a thesis or dissertation on a subject similar to yours in the e-Scholar repository.

Or, if you prefer, find a thesis published in your faculty within the last two years.
Google Scholar

Strengths:
- More academic than Google
- Interdisciplinary
- Lots of grey literature (materials not published through conventional, academic channels such as government reports, preprints, technical reports, white papers, etc.)
- Saving and exporting citations (compatible with EndNote)

Limitations:
- Lack of filters (ex. peer review) and thus harder to control
- Unknown algorithm
- Not all records are scholarly
- No access to commercial databases
From here, you can also save your record (it’ll show up in “my library”) and export a citation.
Find an article related to your research or interests in Google Scholar.
Database Searching

- Choose a database
- Brainstorm a list of keywords
  - Can use phrase searching
  - Can use truncation
    - Eg. scien* will find science, sciences, scientist, scientists, scientific, scientology
- Combine search terms with AND/OR/NOT
- Refine your search using limits (publication year, document type, etc.)
Example database: Web of Science

- Multidisciplinary database including arts, humanities, social science, and science
- Allows you to track citations backwards and forwards in time
- Also includes author metrics
Example search: driverless cars
Brainstorm keywords

- I want to find articles about how driverless cars navigate their surroundings.
- I want to find the most cited article on this topic since 2000. I want to open the article as a PDF.

Keywords
- Driverless
- Autonomous
- Cars or car → car*
- Vehicles or vehicle → vehicle*
- Navigate or navigation → navigat*
Combine keywords

Basic Search

driverless or autonomous

AND

car* or vehicle*

AND

navigat*

Search
View your results

Results: 3,621
(from Web of Science Core Collection)

You searched for:
TOPIC: (driverless or autonomous)
AND TOPIC: (c ...More

Create Alert

Refine Results

Search within results for ...

Web of Science Categories

- ENGINEERING ELECTRICAL ELECTRONIC (1,164)
- ROBOTICS (1,105)
- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE (1,041)
- AUTOMATION CONTROL SYSTEMS (1,000)
- ENGINEERING AEROSPACE (288)

more options / values...

Sort by: Publication Date - newest to oldest

Select Page | Print | Save to EndNote online | Add to Marked List

1. Automation of the Arm-Aided Climbing Maneuver for Tracked Mobile Manipulators
   By: Soren, Javier; Martinez, Jorge L.; Mardos, Anthony, et al
   IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 61 Issue: 7 Pages: 3638-3647 Published: JUL 2014

   By: Siagian, Christan; Chang, Chin Kai; Itti, Laurent
   JOURNAL OF FIELD ROBOTICS Volume: 31 Issue: 3 Pages: 408-440 Published: MAY 2014

3. Navigation of autonomous vehicles for oil spill cleaning in dynamic and uncertain environments
   By: Jin, Xin; Ray, Asok
   INTERNATIONAL JOURNAL OF CONTROL Volume: 87 Issue: 4 Pages: 767-801 Published: AFR 3 2014

4. Enhanced fog detection and free-space segmentation for car navigation
   By: Hautefeu, Nicolas; Tard, Jean-Philippe; Halmaoui, Houssan, et al
   MACHINE VISION AND APPLICATIONS Volume: 25 Issue: 3 Special Issue: SI Pages: 667-679 Published: APR 2014

Analyze Results

Create Citation Report

Times Cited: 1
(from Web of Science Core Collection)

Times Cited: 0
(from Web of Science Core Collection)

Times Cited: 0
(from Web of Science Core Collection)

Times Cited: 0
(from Web of Science Core Collection)
Limit results to 2000 - present
Sort by times cited
Identify the most cited article

Cited 603 times

Click the title for more information
A solution to the simultaneous localization and map building (SLAM) problem

By: Dissanayake, MWMG (Dissanayake, MWMG); Newman, P (Newman, P); Clark, S (Clark, S); Durrant-Whyte, HF (Durrant-Whyte, HF); Csorba, M (Csorba, M)

IEEE TRANSACTIONS ON ROBOTICS AND AUTOMATION
Volume: 17 Issue: 3 Pages: 229-241
DOI: 10.1109/70.938381
Published: JUN 2001

Abstract

The simultaneous localization and map building (SLAM) problem asks if it is possible for an autonomous vehicle to start in an unknown location in an unknown environment and then to incrementally build a map of this environment while simultaneously using this map to compute absolute vehicle location. Starting from the estimation-theoretic foundations of this problem developed in [1][3], this paper proves that a solution to the SLAM problem is indeed possible. The underlying structure of the SLAM problem is first elucidated. A proof that the estimated map converges monotonically to a relative map with zero uncertainty is then developed. It is then shown that the absolute accuracy of the map and the vehicle location reach a lower bound defined only by the initial vehicle uncertainty. Together, these results show that it is possible for an autonomous vehicle to start in an unknown location in an unknown environment and, using relative observations only, incrementally build a perfect map of the world and to compute simultaneously a bounded estimate of vehicle location. This paper also describes a substantial implementation of the SLAM algorithm on a vehicle operating in an outdoor environment using millimeter-wave (MMW) radar to provide relative map observations. This implementation is used to demonstrate how some key issues such as map management and data association can be handled in a practical environment. The results obtained are cross-compared with absolute locations of the map landmarks obtained by surveying. In conclusion, this paper discusses a number of key issues raised by the solution to the SLAM problem including suboptimal map-building algorithms and map management.
Locate the article at UOIT

Select either of these links

- Full text available from E-Journals - Scholars Portal
- Get full text from IEEE Xplore Journals (IEL)

More Options

Need help? Contact Us | Find It FAQ
Author Search Results: 16 Records | 4 Record Sets

You searched for: AU=(Holdway d) AND OR=(UNIVERSITY OF ONTARIO INSTITUTE TECHNOLOGY) ...More

Create Alert

Refine Results

Sort by: Times Cited - highest to lowest

Search within results for...

Select Page  Save to EndNote online  Add to Marked List

Web of Science Categories

- TOXICOLOGY (11)
- ENVIRONMENTAL SCIENCES (10)
- MARINE FRESHWATER BIOLOGY (5)
- WATER RESOURCES (2)
- ENDOCRINOLOGY METABOLISM (1)

more options / values...

Refine

1. PULP AND PAPER MILL EFFLUENT TREATMENTS HAVE DIFFERENTIAL ENDOCRINE-DISRUPTING EFFECTS ON RAINBOW TROUT
By: Orrego, Rodrigo; Guchardi, John; Hernandez, Victor; et al.
ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY Volume: 28 Issue: 1 Pages: 181-188 Published: JAN 2009

2. Estrogenic and anti-estrogenic effects of wood extractives present in pulp and paper mill effluents on rainbow trout
By: Orrego, Rodrigo; Guchardi, John; Krause, Rachelle; et al.
AQUATIC TOXICOLOGY Volume: 99 Issue: 2 Pages: 160-167 Published: AUG 15 2010

Create Citation Report
Author metrics

Citation Report: 16
(from Web of Science Core Collection)

You searched for: AU=(holdway d*) AND DG=(UNIVERSITY OF ONTARIO INSTITUTE TECHNOLOGY) ...More

This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year

Citations in Each Year

Results found: 16
- Sum of the Times Cited: 106
- Sum of Times Cited without self-citations: 89
- Citing Articles: 92
- Citing Articles without self-citations: 83
- Average Citations per Item: 6.62
- h-index: 5
Create a search alert
(need to create a Web of Science account)
Search Web of Science for your supervisor or another UOIT faculty member.

How many times have his/her articles been cited in total?
About the Electrical Engineering Research Guide

This is a guide to recommended library resources, in various formats, for those doing research in the field of Electrical Engineering. Browse through different types of resources using the tabs above.

For general research help, go to the Library's Research a Topic page. For help using the library catalogue, indexes, databases or other specific tools, see the How to Find Resources page.

Contact Ali Versvik, Librarian for Engineering and Energy Systems, if you have questions or require assistance.

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Your Librarian

Examples:

AND

to narrow

online AND privacy

OR

to broaden

internet OR online

NOT

to limit

NOT email

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IEEE

The library has a subscription to all IEEE journals, transactions, and standards. We also subscribe to some IEEE e-books.

IEEE Xplore

Full text access to technical literature in electrical engineering, computer science, and electronics. Contains documents from IEEE journals, transactions, magazines, letters, conference proceedings, standards, and IEE (Institution of Electrical Engineers) publications.

Contact Ali Versvik, Librarian for Engineering and Energy Systems, if you have questions or require assistance.

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IEEE Books

Collection of books addressing various topics within Engineering (e.g. signal processing, energy, robotics, biomedical engineering).
Find a research guide relevant to your program and choose a database.

Conduct a search in this database to find articles related to your research or interests.
Journal Citation Reports (JCR)

Citation data helps measure research influence and impact of journals within their field.

JCR provides various measures of impact for 8,500 Science journals from 2005 to 2013 (published each June).

Examples below are from Automatica – a journal publishing in theoretical/experimental research in control systems

- **Impact Factor** - avg. # of recent citations per article - (articles cited 2011/12 to items published for same years) 2,343/748 = 3.132
- **Immediacy Index** (# of citations that year to articles published that year) 175/446 = .392
- **Cited Half-life** (median age of Automatica articles that were cited by other journals in 2013) = 7.2

Limitations: Almost all journals are English language from N. America, W. Europe and Australia.

Editorial policies can be manipulated to increase a journal’s Impact Factor.
Number of articles published in Automatica in 2013 = 446
Citing Half-life (median age of the citations of the articles published by Automatica) = 8.2

Clicking on an individual title supports a snap shot view of citation information in multiple formats including tables and charts.
Use Journal Citation Reports to view all journals in a subject category related to your research or interests.

Find a journal that would be relevant to you.
What is a citation manager?

- Web-based or desktop software
- Store and organize your references/citations
- Share your references
- Easily generate bibliographies in the citation style of your choice
- Generate in-text citations and bibliographies with Word

Papers | zotero | RefWorks | ENDNOTE | Mendeley
**Getting Started**

### Find

**Collect** references by searching online databases or importing your existing collection.
- Search an online database
- Create a reference manually
- Import references

### Store & Share

**Organize** and group references in any way that works for you. Then share your groups with colleagues.
- Create a new group
- Share a group
- Find duplicate references

### Create

Use our plugin to **format** bibliographies and cite references while you write.
- Cite While You Write™ Plug-In
- Create a formatted bibliography
- Format a paper

### Connect

Interact and **connect** with researchers from around the world.
- Connect now
Export results to EndNote from a database
Look for “export” or “save” option
<table>
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<tr>
<th>Author</th>
<th>Year</th>
<th>Title</th>
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Create a bibliography

ENDNOTE® basic

My References | Collect | Organize | Format | Options | Connect

Bibliography

Quick Search

Search for

in All My References

Search

My References

All My References (2)

[] Unfiled (2)

Quick List (0)

Trash (0)

My Groups

Build a profile to showcase your own work.

ResearcherID

All My References

Show 10 per page

Page 1 of 1

Sort by: First Author -- A to Z

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Create a bibliography

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