



# Research Methodology

## Step 1: Find a Topic

---

Dr. Arash Habibi Lashkari

(Ph.D. of Computer Science)

Issued date: Aug / 2009

Last update: Jan / 2014



## Outlines:

---

### Determine a topic

- How can find an area
- Common structure of resources (paper or thesis)
- Where can find related resources (papers, articles)
- How to summaries a reference
- list of key words
- How can find the best topic(s)



## Select a research area...

---

Choose a topic that interests you:

- Do you have a strong opinion on a current social or political controversy?
- Did you read a newspaper, or see a TV broadcast recently that you liked it?
- Do you have a personal issue, problem, or interest you'd like to know more about?
- Do you have a research paper due in a class this semester?
- Is there an aspect of one of your courses you are interested in learning more about?
- Do you like your lecturer?
- ...



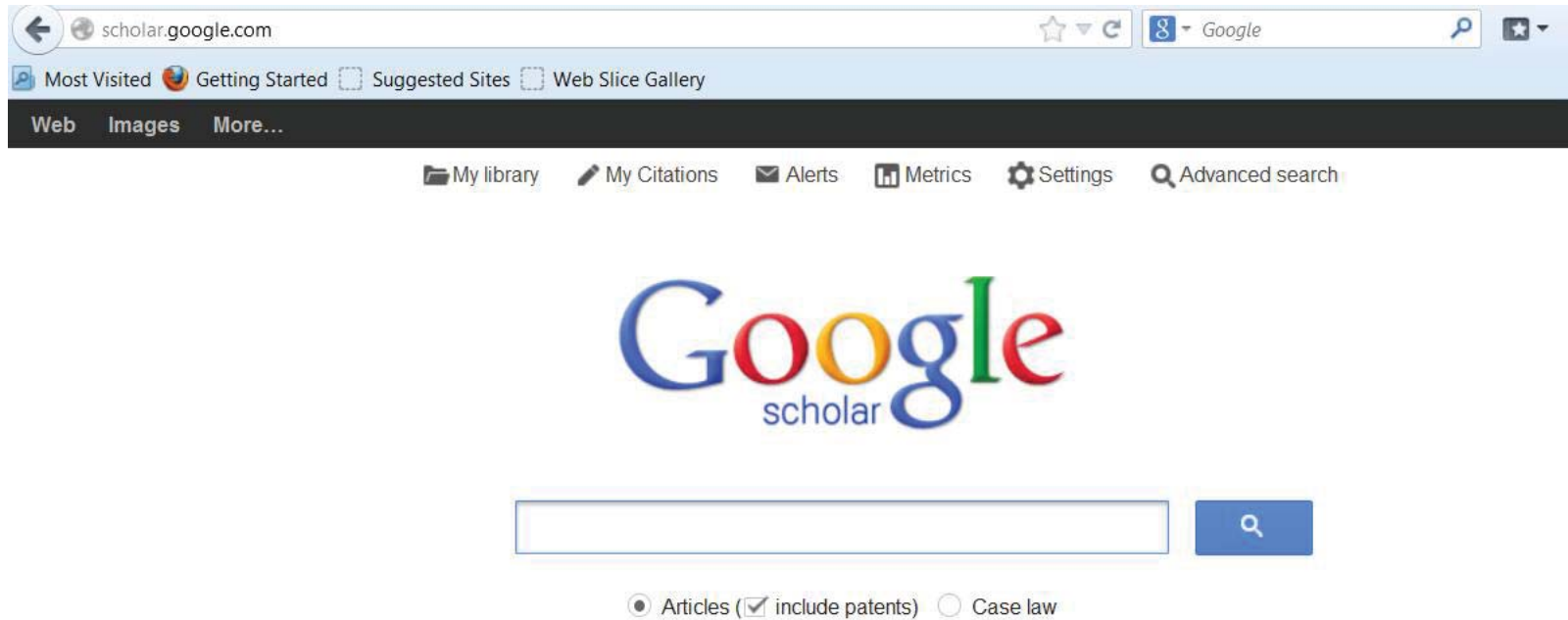
## Common structure of resources...

---

- Title (1000 readers)
- Abstract (4-5 sentences, 100 readers)
- **Keywords** (5-6 words or phrases, 100 readers)
- Introduction (1-1.5 page, 100 readers)
- Related work (1-2 pages, 10 readers)
- The problem (1 page, 10 readers)
- Proposed idea (2 pages, 10 readers)
- Details (2-3 pages, 3 readers)
- **Conclusions** and **further work** (5-6 sentences-100 readers)
- Acknowledgement
- References

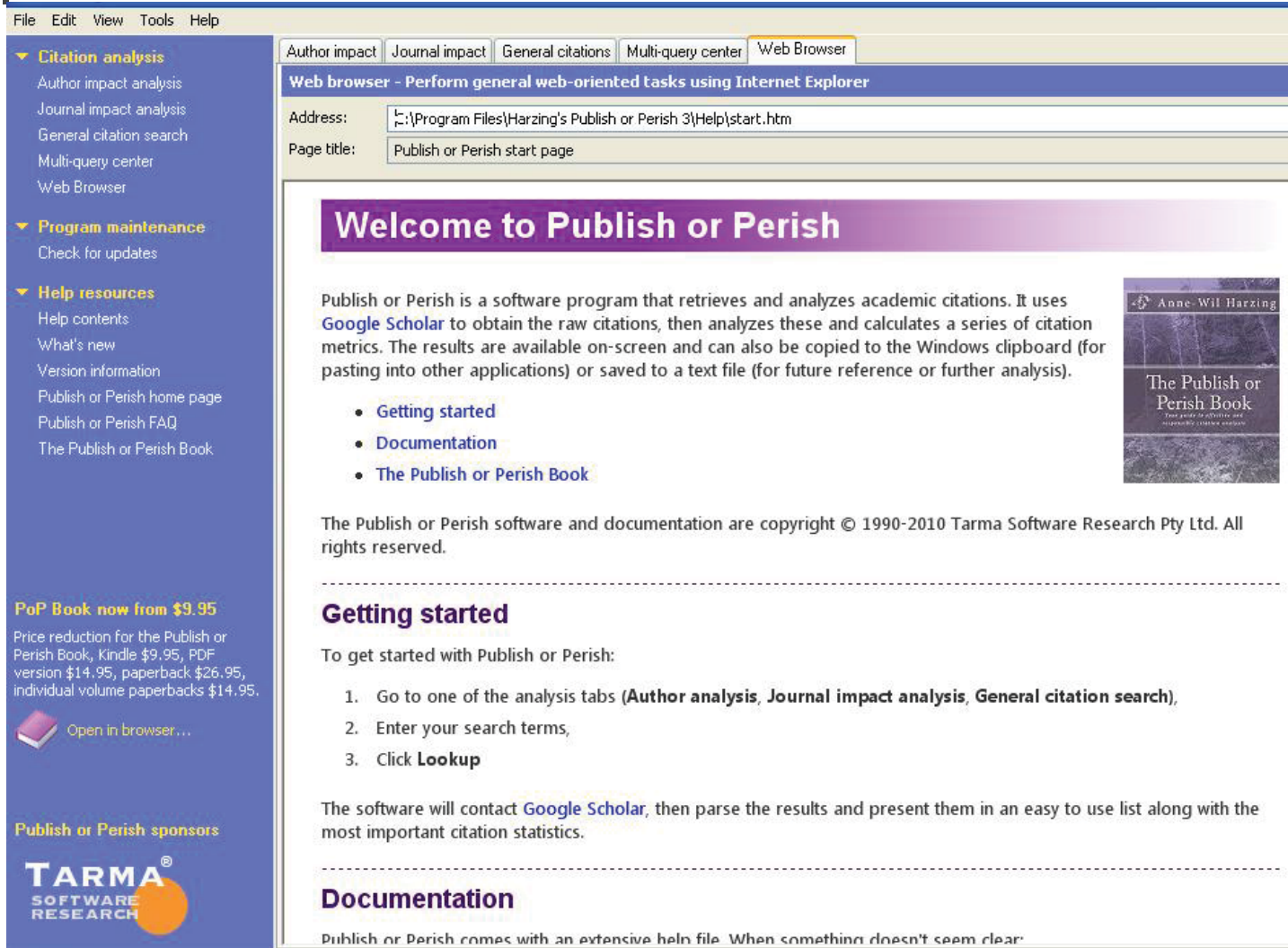


# Google Scholar: website



The screenshot shows the Google Scholar homepage. At the top is a browser address bar with 'scholar.google.com'. Below it is a navigation bar with links: 'Most Visited', 'Getting Started', 'Suggested Sites', and 'Web Slice Gallery'. A dark bar contains 'Web', 'Images', and 'More...'. A secondary navigation bar includes 'My library', 'My Citations', 'Alerts', 'Metrics', 'Settings', and 'Advanced search'. The main content area features the 'Google scholar' logo. Below the logo is a search input field and a blue search button. At the bottom, there are radio buttons for 'Articles (include patents)' (selected) and 'Case law'.

# Publish or Perish: effective and responsible citation analysis



The screenshot displays the Publish or Perish software interface. The top menu bar includes File, Edit, View, Tools, and Help. The left sidebar contains three main sections: Citation analysis (with sub-items: Author impact analysis, Journal impact analysis, General citation search, Multi-query center, Web Browser), Program maintenance (with sub-item: Check for updates), and Help resources (with sub-items: Help contents, What's new, Version information, Publish or Perish home page, Publish or Perish FAQ, The Publish or Perish Book). The main window shows the 'Web Browser' tab, which is titled 'Web browser - Perform general web-oriented tasks using Internet Explorer'. The address bar shows the path 'C:\Program Files\Harzing's Publish or Perish 3\Help\start.htm', and the page title is 'Publish or Perish start page'. The main content area features a purple header 'Welcome to Publish or Perish'. Below this, a paragraph describes the software: 'Publish or Perish is a software program that retrieves and analyzes academic citations. It uses Google Scholar to obtain the raw citations, then analyzes these and calculates a series of citation metrics. The results are available on-screen and can also be copied to the Windows clipboard (for pasting into other applications) or saved to a text file (for future reference or further analysis)'. To the right of this text is a book cover for 'The Publish or Perish Book' by Anne Wil Harzing. Below the paragraph is a bulleted list of links: 'Getting started', 'Documentation', and 'The Publish or Perish Book'. Further down, a copyright notice states: 'The Publish or Perish software and documentation are copyright © 1990-2010 Tarma Software Research Pty Ltd. All rights reserved.' Below this is a section titled 'Getting started' with the heading 'To get started with Publish or Perish:' followed by a numbered list: 1. Go to one of the analysis tabs (Author analysis, Journal impact analysis, General citation search), 2. Enter your search terms, 3. Click Lookup. Below the list, a paragraph states: 'The software will contact Google Scholar, then parse the results and present them in an easy to use list along with the most important citation statistics.' At the bottom of the main content area is a section titled 'Documentation' with the text: 'Publish or Perish comes with an extensive help file. When something doesn't seem clear:'. The bottom of the sidebar contains a promotional message for the 'PoP Book now from \$9.95', a small icon of a book with the text 'Open in browser...', and the 'TARMA SOFTWARE RESEARCH' logo.


File Edit View Tools Help

▼ **Citation analysis**  
Author impact analysis  
Journal impact analysis  
General citation search  
Multi-query center  
Web Browser

▼ **Program maintenance**  
Check for updates

▼ **Help resources**  
Help contents  
What's new  
Version information  
Publish or Perish home page  
Publish or Perish FAQ  
The Publish or Perish Book

**PoP Book now from \$9.95**  
Price reduction for the Publish or Perish Book, Kindle \$9.95, PDF version \$14.95, paperback \$26.95, individual volume paperbacks \$14.95.

 Open in browser...

**Publish or Perish sponsors**  
**TARMA**  
SOFTWARE  
RESEARCH

Author impact Journal impact General citations Multi-query center **Web Browser**

**Web browser - Perform general web-oriented tasks using Internet Explorer**

Address: C:\Program Files\Harzing's Publish or Perish 3\Help\start.htm  
Page title: Publish or Perish start page

## Welcome to Publish or Perish

Publish or Perish is a software program that retrieves and analyzes academic citations. It uses [Google Scholar](#) to obtain the raw citations, then analyzes these and calculates a series of citation metrics. The results are available on-screen and can also be copied to the Windows clipboard (for pasting into other applications) or saved to a text file (for future reference or further analysis).

- [Getting started](#)
- [Documentation](#)
- [The Publish or Perish Book](#)

The Publish or Perish software and documentation are copyright © 1990-2010 Tarma Software Research Pty Ltd. All rights reserved.

---

## Getting started

To get started with Publish or Perish:

1. Go to one of the analysis tabs (**Author analysis**, **Journal impact analysis**, **General citation search**),
2. Enter your search terms,
3. Click **Lookup**

The software will contact [Google Scholar](#), then parse the results and present them in an easy to use list along with the most important citation statistics.

---

## Documentation

Publish or Perish comes with an extensive help file. When something doesn't seem clear:

# Publish or Perish: Search journal's name ...

**Harzing's Publish or Perish**


File Edit View Tools Help

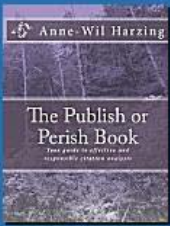
▼ **Citation analysis**  
Author impact analysis  
Journal impact analysis  
General citation search  
Multi-query center  
Web Browser

▼ **Program maintenance**  
Check for updates

▼ **Help resources**  
Help contents  
What's new?  
2-Minute introduction  
Frequently Asked Questions  
Version information  
Publish or Perish home page  
The Publish or Perish Book

**Book review in Nature**  
"The Publish or Perish Book is a useful resource for scientists, particularly in fields in which Google Scholar is a major source of citations."

 Open in browser...



Author impact Journal impact General citations Multi-query center Web Browser

**Journal impact analysis - Perform a citation analysis for one or more journals**

Journal title:

Exclude these words:

Year of publication between:  and:

☒ Biology, Life Sciences, Environmental Science  
☒ Business, Administration, Finance, Economics  
☒ Chemistry and Materials Science  
☒ Engineering, Computer Science, Mathematics  
☒ Medicine, Pharmacology, Veterinary Science  
☒ Physics, Astronomy, Planetary Science  
☒ Social Sciences, Arts, Humanities

Lookup  
Lookup Direct  
Help

**Results**

|             |          |                |           |           |        |           |          |
|-------------|----------|----------------|-----------|-----------|--------|-----------|----------|
| Papers:     | 1000     | Cites/paper:   | 1353.45   | h-index:  | 730    | AWCR:     | 83688.69 |
| Citations:  | 1353453  | Cites/author:  | 766447.61 | g-index:  | 1000   | AW-index: | 289.29   |
| Years:      | 53       | Papers/author: | 530.05    | hc-index: | 312    | AWCRpA:   | 43128.76 |
| Cites/year: | 25536.85 | Authors/paper: | 2.48      | hI-index: | 293.77 | e-index:  | 823.40   |
|             |          |                |           | hI,norm:  | 471    | hm-index: | 494.43   |

| Cites                                     | Per year | Rank | Authors                  | Title                                     | Year | Publication                     | Publisher  |
|---|----------|------|--------------------------|---|------|---------------------------------|------------|
| <input checked="" type="checkbox"/> 50754 | 4229.50  | 6    | CE Shannon               | A mathematical theory of communica...     | 2001 | ACM SIGMOBILE Mobile Com...     | dl.acm.org |
| <input checked="" type="checkbox"/> 14674 | 419.26   | 2    | CAR Hoare                | Communicating sequential processes        | 1978 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 11681 | 333.74   | 3    | RL Rivest, A Shamir...   | A method for obtaining digital signat...  | 1978 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 11326 | 566.30   | 1    | R Agrawal, T Imielni...  | Mining association rules between set...   | 1993 | ACM SIGMOD Record               | dl.acm.org |
| <input checked="" type="checkbox"/> 9883  | 823.58   | 4    | I Stoica, R Morris, D... | Chord: A scalable peer-to-peer look...    | 2001 | ACM SIGCOMM ...                 | dl.acm.org |
| <input checked="" type="checkbox"/> 9560  | 4780.00  | 14   | CC Chang...              | LIBSVM: a library for support vector ...  | 2011 | ACM Transactions on Intellig... | dl.acm.org |
| <input checked="" type="checkbox"/> 8274  | 318.23   | 5    | WE Lorenzen...           | Marching cubes: A high resolution 3...    | 1987 | ACM Siggraph Computer Gr...     | dl.acm.org |
| <input checked="" type="checkbox"/> 7743  | 193.58   | 11   | CL Liu...                | Scheduling algorithms for multiprogr...   | 1973 | Journal of the ACM (JACM)       | dl.acm.org |
| <input checked="" type="checkbox"/> 7590  | 632.50   | 12   | S Ratnasamy, P Fra...    | A scalable content-addressable net...     | 2001 | ACM SIGCOMM ...                 | dl.acm.org |
| <input checked="" type="checkbox"/> 7367  | 199.11   | 17   | PPS Chen                 | The entity-relationship model—towa...     | 1976 | ACM Transactions on Datab...    | dl.acm.org |
| <input checked="" type="checkbox"/> 7332  | 209.49   | 7    | L Lamport                | Time, clocks, and the ordering of ev...   | 1978 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 7001  | 162.81   | 8    | EF Codd                  | A relational model of data for large s... | 1970 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 6968  | 217.75   | 10   | MA Fischler...           | Random sample consensus: a paradi...      | 1981 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 6694  | 478.14   | 18   | JM Kleinberg             | Authoritative sources in a hyperlinke...  | 1999 | Journal of the ACM (JACM)       | dl.acm.org |
| <input checked="" type="checkbox"/> 6686  | 477.57   | 13   | AK Jain, MN Murty...     | Data clustering: a review                 | 1999 | ACM computing surveys (CS...    | dl.acm.org |
| <input checked="" type="checkbox"/> 6587  | 193.74   | 15   | A Shamir                 | How to share a secret                     | 1979 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 6512  | 217.07   | 16   | JF Allen                 | Maintaining knowledge about tempor...     | 1983 | Communications of the ACM       | dl.acm.org |
| <input checked="" type="checkbox"/> 6224  | 327.58   | 19   | CE Perkins...            | Highly dynamic destination-sequenc...     | 1994 | ACM SIGCOMM Computer C...       | dl.acm.org |
| <input checked="" type="checkbox"/> 5796  | 231.84   | 20   | V Jacobson               | Congestion avoidance and control          | 1988 | ACM SIGCOMM Computer C...       | dl.acm.org |
| <input checked="" type="checkbox"/> 5754  | 198.41   | 9    | A Guttman                | R-trees: a dynamic index structure f...   | 1984 |                                 | dl.acm.org |
| <input checked="" type="checkbox"/> 5075  | 390.38   | 64   | B Karp...                | GPSR: Greedy perimeter stateless ro...    | 2000 | Proceedings of the 6th annu...  | dl.acm.org |
| <input checked="" type="checkbox"/> 4923  | 984.60   | 25   | J Dean...                | MapReduce: Simplified data processi...    | 2008 | Communications of the ACM       | dl.acm.org |

Copy >  
Copy results  
Check all  
Check selection  
Uncheck all  
Uncheck 0 cites  
Uncheck selection  
Help

# Web of Knowledge: search keywords...

**WEB OF KNOWLEDGE<sup>SM</sup>** | DISCOVERY STARTS HERE

Go to mobile site | Sign In | Marked List (0) | My EndNote Web | My ResearcherID | My Citation Alerts | My Saved Searches

**All Databases** | Select a Database | Web of Science | Additional Resources

Search | Search History | Compound Marked List (0)

### All Databases

#### Search

Example: oil spill mediterranean

OR  in Topic

Example: O'Brian C\* OR OBrian C\*

AND  in Author

Example: Cancer\* OR Journal of Cancer Research and Clinical Oncology

in Publication Name

Add Another Field >>

**Search** **Clear** Searches must be in English

**Current Limits:** (To save these permanently, sign in or register.)

☐ Timespan

☒ All Years

☐ From  to  (default is all years)

☐ Adjust your search settings

☐ Adjust your results settings

View in: [简体中文](#) | [English](#) | [日本語](#)

© 2012 Thomson Reuters | [Terms of Use](#) | [Please give us your feedback on using Web of Knowledge.](#)

**Customer Support**  
The related record week has now t apologize for an have caused. If questions, please Customer Support

**Questions about Web of Knowledge**  
Have questions counts between and the previous in search capabilities details? See the Questions page

**Looking for Books**  
Access your subscription Web of Science Index under search for non-subscribers

**Support, Training & Support**  
• Download your Recorded Training  
• Access additional Training Resources  
• More questions  
What's new in Web of Knowledge



# Science Direct: search keywords...

The screenshot displays the ScienceDirect website interface. At the top, there's a navigation bar with links for Home, Browse, Search, My settings, and My alerts. A search bar is prominently featured with the text 'cloud computing' entered. Below the search bar, a banner for 'Find methods you need for your research' is visible. The main content area shows search results for 'cloud computing', with a total of 20,553 articles found. The results are listed in a table with columns for article title, author, and publication details. The first article is 'Mobile cloud computing: A survey' by Niroshinie Fernando, Beng W. Loo, and Wenny Rahayu. The second article is 'A survey on gaps, threat remediation challenges and some thoughts for proactive attack detection in cloud computing' by Md. Tanzim Khondker, A.B.M. Shaukat Ali, Saikat A. Wazim. The third article is 'From cloud computing to cloud manufacturing' by Xuh Xu. The fourth article is 'The playground of cloud computing in Turkey' by Aslı Deniz Hekimoğlu Kuyucu. Each article entry includes a 'Show preview' link and a 'PDF' icon. On the left side, there's a 'Refine results' section with filters for Content Type (Journal, Book, Reference work), Journal/Book Title, Topic, and Year. The 'Year' filter shows 2013 (4) selected. The 'Topic' filter shows 'cloud computing' (178) selected. The 'Content Type' filter shows 'Journal' (19,227) selected. The 'Journal/Book Title' filter shows 'Remote Sensing of Environment' (667) selected. The 'Topic' filter shows 'cloud computing' (178) selected. The 'Year' filter shows 2013 (4) selected.

# Scopus: Search keywords...

The screenshot shows the Scopus search interface. At the top, there's a navigation bar with 'SciVerse' and 'Scopus' logos, and links for 'Hub', 'ScienceDirect', 'Scopus', and 'Applications'. On the right, there are links for 'Register', 'Login', and 'Go to SciVal Suite'. Below this is a secondary navigation bar with 'Search', 'Sources', 'Analytics', 'Alerts', 'My list', and 'Settings'. The main search area has four tabs: 'Document search', 'Author search', 'Affiliation search', and 'Advanced search'. The 'Author search' tab is selected. It contains several input fields: 'Last Name' with the example 'arash habibi', 'Initials or First Name' with the example 'E.g., j.l.', and 'Affiliation' with the example 'E.g., university of toronto'. There are also checkboxes for 'Subject Areas' including 'Life Sciences', 'Physical Sciences', 'Health Sciences', and 'Social Sciences & Humanities'. A 'Search' button is at the bottom right of the form. To the right of the search form, there is a text box explaining the Scopus Author Identifier algorithm. Below the search form is a 'Search history' section with a table showing search results and actions like 'Set feed', 'Set alert', 'Save', 'Edit', and 'Delete'. At the bottom, there is a footer with links for 'About Scopus', 'Contact and Support', and 'About Elsevier'.

SciVerse Scopus

Hub | ScienceDirect | Scopus | Applications

Register | Login | Go to SciVal Suite

Search | Sources | Analytics | Alerts | My list | Settings

Help

Document search | **Author search** | Affiliation search | Advanced search

**Author** ⓘ Last Name: arash habibi  
E.g., smith

Initials or First Name:   
E.g., j.l.

☐ Show exact matches only

Affiliation:   
E.g., university of toronto

Search

Limit to:

Subject Areas ⓘ

☒ Life Sciences ☒ Physical Sciences  
☒ Health Sciences ☒ Social Sciences & Humanities

Search

To determine which author names should be grouped together under a single identifier number, the Scopus Author Identifier uses an algorithm that matches author names based on their affiliation, address, subject area, source title, dates of publication, citations, and co-authors. Documents with insufficient data may not be matched, this can lead to more than one entry in the results list for the same author. By default, only details pages matched to more than one document in Scopus are shown in search results. [About Scopus Author Identifier](#)

**Search history** Hide

| Search   | Results | Set feed | Set alert | Save | Edit | Delete |
|--|---------|----------|-----------|------|------|--------|
| You have not performed any searches in this session. |         |          |           |      |      |        |

Note: This Search history will contain the latest 50 searches you perform in this session.

About Scopus  
What is Scopus  
Content coverage  
What do users think  
Latest  
Tutorials

Contact and Support  
Contact and support  
Live Chat

About Elsevier  
About Elsevier  
About SciVerse  
About SciVal  
Terms and Conditions  
Privacy Policy

ELSEVIER

## Springer Link: search Keywords...

The screenshot shows the SpringerLink website interface. At the top, there are links for 'springer.com' and 'springerprotocols.com', a language dropdown set to 'English', and a 'GO' button. The SpringerLink logo is on the left. Below the logo is a search bar with the text 'arash habibi lashkari' and a 'GO' button. To the right of the search bar are links for 'Advanced Search' and 'Search Tips'. Below the search bar is a navigation bar with links for 'HOME', 'MY SPRINGERLINK', 'BROWSE', 'TOOLS', 'HELP', 'SHOPPING CART', and 'LOG IN'. The main content area is divided into two columns. The left column contains a 'Search' tab and a 'Publications' tab. Under the 'Search' tab, there is a 'Search Within These Results' section with a search bar and a 'GO' button. Below this is a 'Filter These Results' section with a list of criteria: 'Collection', 'Copyright Year', 'SpringerLink Date', and 'Author'. The 'Collection' filter is expanded, showing 'Computer Science (3)' and 'Engineering (1)'. The right column displays the search results for the boolean expression '(au:("arash habibi") or ed:("arash habibi"))' with no filters. It shows 'Viewing 4 items' and a 'Sort by' dropdown set to 'Relevance'. Three results are visible, each a 'Book Chapter'. The first result is 'Ubiquitous Medical Learning Using Augmented Reality Based on Cognitive Information Theory' by Zahra Mohana Gebril, Imam Musa Abiodunde Tele, Mohammed A. Tahir, Behrang Parhizkar and Anand Ramachandran, et al. The second result is 'Security Evaluation for Graphical Password' by Arash Habibi Lashkari, Azizah Abdul Manaf, Maslin Masrom and Salwani Mohd Daud. The third result is 'A Wide Survey on Botnet' by Arash Habibi Lashkari, Seyedeh Ghazal Ghalebani and Mohammad Reza Moradhaseli. Each result has a 'Download PDF' button and a 'Look Inside' button. A 'Show Summary' button is also present for each result.

springer.com springerprotocols.com English GO

SpringerLink

SEARCH FOR  PUBLICATION VOLUME ISSUE PAGE GO Advanced Search Search Tips

HOME MY SPRINGERLINK BROWSE TOOLS HELP SHOPPING CART LOG IN

Search Publications

Search Within These Results  GO

Filter These Results

Add criteria from below to refine these results

Collection

Computer Science (3)

Engineering (1)

Copyright Year

SpringerLink Date

Author

Search results for the boolean expression '(au:("arash habibi") or ed:("arash habibi"))' with no filters

Viewing 4 items

Sort by: Relevance Date Title

Book Chapter

**Ubiquitous Medical Learning Using Augmented Reality Based on Cognitive Information Theory**

Zahra Mohana Gebril, Imam Musa Abiodunde Tele, Mohammed A. Tahir, Behrang Parhizkar and Anand Ramachandran, et al. *Advances in Intelligent and Soft Computing*, 2012, Volume 167, *Advances in Computer Science, Engineering & Applications*, Pages 305-312

Download PDF (335.5 KB) Look Inside Show Summary

Book Chapter

**Security Evaluation for Graphical Password**

Arash Habibi Lashkari, Azizah Abdul Manaf, Maslin Masrom and Salwani Mohd Daud *Communications in Computer and Information Science*, 1, Volume 166, *Digital Information and Communication Technology and Its Applications, Part 4*, Pages 431-444


Download PDF (469.3 KB) Look Inside Show Summary

Book Chapter

**A Wide Survey on Botnet**

Arash Habibi Lashkari, Seyedeh Ghazal Ghalebani and Mohammad Reza Moradhaseli

## Scientific.net: Search Keywords...



Materials Science and Engineering

HOME CONTACT My eBook

Username:  Password:  **LOGIN**

Logged in: Universiti Teknologi Malaysia UTM Library Access

FULLTEXT SEARCH

GO!

NEW: [Advanced Search](#)

1.400.000 PAGES OF RESEARCH

MONTHLY 1.200.000 PAGE VIEWS

OVER 300.000 VISITORS PER MONTH

new E-BOOKS

**Periodicals:**

MSF  
> Materials Science Forum

KEM  
> Key Engineering Materials

SSP  
> Solid State Phenomena

DDF  
> Defect and Diffusion Forum

AMM  
> Applied Mechanics and Materials

AMR  
> Advanced Materials Research

AST  
> Advances in Science and Technology

JNanoR  
> Journal of Nano Research

JBBTE  
> Journal of Biomimetics, Biomaterials, and Tissue Engineering

JMNM  
> Journal of Metastable and

**Advanced Search**

☒ all words (boolean 'and') ☐ any of the words (boolean 'or') [tip](#)

Paper title

Fulltext

Without words

Author(s) name

Keywords entered by authors

The age of paper title

Journal

Search

# Digital Library: Search Keywords...



SAE International®

## Filter by My Subscriptions ?

- ☐ Aerospace Material Specifications
- ☐ Aerospace Standards
- ☐ Ground Vehicle Standards
- ☐ Technical Papers 1906 - 1963
- ☐ Technical Papers 1964 - 1979
- ☐ Technical Papers 1980 - 1989
- ☐ Technical Papers 1990 - 1997
- ☐ Technical Papers 1998 - Present
- ☐ USCAR Reports

Browse All

## Filter Results

### Content Types

|   |       |
|---|-------|
| <input type="checkbox"/> Aerospace Material Specification | 12884 |
| <input type="checkbox"/> Aerospace Standard               | 10197 |
| <input type="checkbox"/> AS Companion Document            | 3     |
| <input type="checkbox"/> Book                             | 424   |
| <input type="checkbox"/> Ground Vehicle Standard          | 4864  |
| <input type="checkbox"/> GV Companion Document            | 2     |
| <input type="checkbox"/> Handbook Supplement (HS)         | 23    |
| <input type="checkbox"/> Index                            | 1     |

## Quick Search

## Advanced Search

Find: arash habibi lashkari

Clear

And

And

☒ Limit to Full Text ?

☐ Include Historical Standards

Limit to Publication Date

☒ Anytime

☐ Date

06/23/2012

☐ Range

From: 01/01/1905

to: 06/23/2012

Advanced Search

Sort By: ▲ Relevance

Title

Date

Item #

Displaying: 25

## My Access

[Logout](#)

As part of your subscription you may have access to additional documents.

[Login for More Access](#)

## Provided By

Universiti Teknologi Malaysia

## Resources

[Administrator](#)

[Contact Us](#)

[Technical Support](#)

[Feedback](#)

[FAQs](#)

[Brochure](#)

[User Guide](#)

[License Agreement](#)

[Help](#)

[What's New](#)

## About Digital Library

[Get Started Now](#)

[Survey](#)

[Product Features](#)

# ACM: Search Keywords...



Universiti Teknologi Malaysia

[SIGN IN](#) [SIGN UP](#)

Advanced Search

Enter words, phrases or names below. Surround phrases or full names with double quotation marks.

**SEARCH**

## Words or Phrases

Find  with

**all** of this text (and)

**any** of this text (or)

**none** of this text (not)

## Keywords

Find author's keywords

using ☒ all ☐ any ☐ none of the keywords

## Publication

Find publication

using ☒ all ☐ any ☐ none of the names

Published since  Published before

In publication types ☐ Journal ☐ Proceeding ☐ Transaction ☐ Magazine ☐ Newsletter

## Conference

Find sponsor names

using ☒ all ☐ any ☐ none of the names

Find year (yyyy)

## Names

Find  with names

Authors

Editors

Advisors

Reviewers

using ☒ all ☐ any ☐ none of the names

## Affiliations

Find company or school

using ☒ all ☐ any ☐ none of the affiliations

Find publisher

using ☒ any ☐ none of the names

Find location

using ☒ any ☐ none of the locations

# IEEE: Search Keywords...

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites Cart(0) | Create Account | Sign In

**IEEE Xplore®**  
DIGITAL LIBRARY

**For Institutional Users:**  
▶ Athens/Shibboleth  
▶ Institutional Sign In

**IEEE**

**BROWSE** ▾ **MY SETTINGS** ▾ **WHAT CAN I ACCESS?** | About IEEE Xplore | Terms of Use | Feedback ?

### Advanced Search Options

Advanced Keyword/Phrases | Command Search | Publication

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT

*Note: Refresh page to reflect updated preferences.*

Search : ☒ Metadata Only ☐ Full Text & Metadata ?

in

AND ▾  in  ↑ X

AND ▾  in  ↑ X

**Publisher**

Return Results from

- Metadata Only
- Document Title
- Authors
- Publication Title
- Abstract
- Index Terms
- Author Affiliation
- Accession Number
- Article Number
- Author Keywords
- DOE Terms
- DOI
- IEEE Terms
- INSPEC Controlled Terms
- INSPEC Non-Controlled Terms
- ISBN
- ISSN
- Issue
- MeSH Terms
- PACS Terms
- Article Number

**LEARN MORE ABOUT**

- » Data Fields »
- » Search Examples »
- » Search Operators »
- » Search Guidelines »

# Index to Thesis: Search Keywords...



[Quick Search](#) [Simple Search](#) [Standard Search](#) [Advanced Search](#)

## Advanced Search

This page is for advanced users who want precise control over the query they use to search Index to Theses. It allows you to formulate a query in the native language of our search engine.

You can limit the results to theses where the term occurs in the particular field. For example "ti contains computer" will search for all theses with the word 'computer' in the title.

**NOTE:** Make sure you select 'boolean' as the search type for this type of search to work.

The following field codes are recognised on this page:

|     |                                     |    |       |    |        |
|-----|-------------------------------------|----|-------|----|--------|
| un  | university name                     | ti | title | au | author |
| cl  | class code                          | yr | year  | dg | degree |
| uid | university id (see university list) |    |       |    |        |

Other pages show various examples including refining a search as well as more technical information on wild cards and boolean operators.

**Search Request: Search Tips**

Search request:

Search type: boolean

**Search options: Search Tips**

☒ Stemming ☐ Phonic searching

☐ Fuzzy searching ☐ Synonym expansion

Fuzziness: 4

How many hits do you want displayed per page? 25

[Home](#) [What's New](#) [University List](#) [Classification List](#) [Contact Us](#)

Index to Theses copyright 2012 Expert Information Ltd.

# ProQuest: Search Keywords...

## ProQuest

Basic

Advanced

Topics

Publications

My Research  
0 marked items

Databases selected: Multiple databases...

### Advanced Search

Tools: [Search Tips](#) [Browse Topics](#) [Thesaurus](#)

|     |  |                            |
|-----|--|----------------------------|
|     |  | Citation and document text |
| AND |  | Citation and document text |
| AND |  | Citation and document text |

[Add a row](#) | [Remove a row](#)

Database: Multiple databases...

Date range: All dates

Limit results to:  
☐ Full text documents only  
☐ Scholarly journals, including peer-reviewed

[More Search Options](#)

- Citation and document text
- Citation and abstract
- Citation and document text
- Abstract
- Author
- Classification code
- Column
- Company/Org
- Corporate author
- Dateline
- Document feature
- Document ID
- Document language
- Document text
- Document title
- Document type
- Image caption
- Location
- NAICS code
- Page
- Person

multiple databas

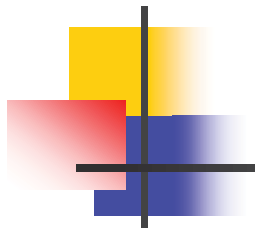
Quest LLC. All rig

[Text-only ir](#)

alaysia, 81310, U



Perpustakaan Sultanah



## How to summaries a reference

---

Date:

Authors:

Problem:

Key words:

Methodology:

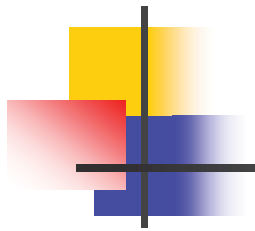
Solution / Idea:

Analysis:

Finding:

Future Works:

| No.   | Date | Auth. | Prob. | Key. | Meth. | So. | Ana. | Fin. | F.W. |
|-------|------|-------|-------|------|-------|-----|------|------|------|
| Ref 1 |      |       |       |      |       |     |      |      |      |
| Ref 2 |      |       |       |      |       |     |      |      |      |



## List of Keywords and Authors

---

Repeating your search  
in related resources based on  
**Keywords and Authors**

| No.   | Date | Auth. | Prob. | Key. | Meth. | So. | Ana. | Fin. | F.W. |
|-------|------|-------|-------|------|-------|-----|------|------|------|
| Ref 1 |      |       |       |      |       |     |      |      |      |
| Ref 2 |      |       |       |      |       |     |      |      |      |



## Repeat your search in related references...

---

- Google Scholar
- Publish or perish
- Web of Knowledge
- Science Direct
- Scopus
- Springer Link
- Scientific.net
- Digital Library
- ACM
- IEEE
- Index to Thesis
- ProQuest
- ...



# Google Scholar: website

The screenshot shows the Google Scholar homepage. At the top, the browser address bar displays 'scholar.google.com'. Below it, a navigation bar includes links for '+You', 'Search', 'Images', 'Maps', 'Play', 'YouTube', 'News', 'Gmail', and 'More'. On the right side of this bar are links for 'Sign in' and a settings gear icon. Further right, there are links for 'My Citations', 'Metrics', 'Alerts', and 'Settings'. The main content area features the 'Google scholar' logo. Below the logo is a search bar containing the text 'arash habibi lashkari'. To the right of the search bar is a blue search button with a magnifying glass icon. Below the search bar, there are radio buttons for 'Articles' (selected) and 'Legal documents'. The 'Articles' option has a checked checkbox for 'include patents'. Below these options is a yellow notification box that says 'Welcome to our new modern look!' with links for 'Learn more' and 'Dismiss'. Below the notification box is the text 'Stand on the shoulders of giants' in green. At the bottom of the page, there is a link for 'Revert to old venerable look' on the left and links for 'About Google Scholar', 'All About Google', and 'Privacy & Terms' on the right.

scholar.google.com

+You Search Images Maps Play YouTube News Gmail More

Sign in

My Citations Metrics Alerts Settings

Google scholar

arash habibi lashkari

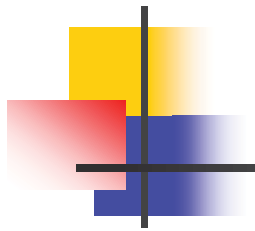
Articles (include patents) Legal documents

Welcome to our new modern look! [Learn more](#) [Dismiss](#)

Stand on the shoulders of giants

Revert to old venerable look

About Google Scholar All About Google Privacy & Terms



# Google Scholar: Advanced search Options....

+arash Search Images Maps Play YouTube News Gmail More -

arash habibi lashkari

Share...

Google

Scholar

Articles

Legal documents

Any time

Since 2012

Since 2011

Since 2008

Custom range...

Recent additions

☒ include patents

☒ include citations

arash habibi lashkari

Find articles

with **all** of the words

with the **exact phrase**

with **at least one** of the words

**without** the words

where my words occur

Return articles **authored by**

Return articles **published in**

Return articles **dated between**

arash habibi lashkari

anywhere in the article

e.g., "PJ Hayes" or McCarthy

e.g., J Biol Chem or Nature

e.g., 1996

Give us feedback

My Citations

[PDF] from lut.fi

[PDF] from arxiv.org

[PDF] from arxiv.org

[PDF] from ivanescobar.com

Abstract: Information and computer security is supported largely by passwords which are the principle part of the authentication process. The most common computer authentication method is to use alphanumerical username and password which has significant ...  
Cited by 5 - Related articles - All 9 versions

A Wide range Survey on Recall Based Graphical User Authentications Algorithms Based on ISO and Attack Patterns

AH Lashkari, D Saleh, S Farmand... - Arxiv preprint arXiv:..., 2010 - arxiv.org

Abstract: Nowadays, user authentication is one of the important topics in information security. Text based strong password schemes could provide with certain degree of security. However, the fact that strong passwords being difficult to memorize often leads their ...  
Cited by 4 - Related articles - All 7 versions

Wired Equivalent Privacy (WEP) versus Wi-Fi Protected Access (WPA)

# Google Scholar: Search result...

+arash Search Images Maps Play YouTube News Gmail More - arash habibi lashkari Share...

Google arash habibi lashkari Give us feedback

Scholar About 81 results (0.04 sec) My Citations

Articles

Legal documents

Any time  
Since 2012  
Since 2011  
Since 2008  
Custom range...

Recent additions

☒ include patents  
☒ include citations

[A survey on wireless security protocols \(WEP, WPA and WPA2/802.11 i\)](#) [PDF] from lut.fi  
AH Lashkari, MMS Danesh... - Computer Science and ..., 2009 - [ieeexplore.ieee.org](#)  
Abstract Wireless technology has been gaining rapid popularity for some years. Adaptation of a standard depends on the ease of use and level of security it provides. In this case, contrast between wireless usage and security standards show that the security is not ...  
Cited by 21 - Related articles - All 15 versions

[Wired Equivalent Privacy \(WEP\)](#)  
AH Lashkari, F Towhidi... - Future Computer and ..., 2009 - [ieeexplore.ieee.org](#)  
Abstract There are some demonstrable reasons for customers who like use from wireless technology and this is clear because there are various benefits for using wireless technology. The contrast between wireless usage and security techniques growing, show ...  
Cited by 7 - Related articles - All 4 versions

[Shoulder Surfing attack in graphical password authentication](#) [PDF] from arxiv.org  
AH Lashkari, S Farmand, D Zakaria, O Bin... - [Arxiv preprint arXiv: ..., 2009 - arxiv.org](#)  
Abstract: Information and computer security is supported largely by passwords which are the principle part of the authentication process. The most common computer authentication method is to use alphanumeric username and password which has significant ...  
Cited by 5 - Related articles - All 9 versions

[A Wide range Survey on Recall Based Graphical User Authentications Algorithms Based on ISO and Attack Patterns](#) [PDF] from arxiv.org  
AH Lashkari, D Saleh, S Farmand... - [Arxiv preprint arXiv: ..., 2010 - arxiv.org](#)  
Abstract: Nowadays, user authentication is one of the important topics in information security. Text based strong password schemes could provide with certain degree of security. However, the fact that strong passwords being difficult to memorize often leads their ...  
Cited by 4 - Related articles - All 7 versions

[Wired Equivalent Privacy \(WEP\) versus Wi-Fi Protected Access \(WPA\)](#) [PDF] from ivanescobar.com  
AH Lashkari, M Mansoor... - ..., Conference on Signal ..., 2009 - [ieeexplore.ieee.org](#)  
Abstract Wireless technology has been gaining rapid popularity for some years. Adaptation of a standard depends on the ease of use and level of security it provides. In this case, contrast between wireless usage and security standards show that the security is not ...  
Cited by 5 - Related articles - All 12 versions

# Publish or Perish: Search Author's name ...

**Harzing's Publish or Perish**

File Edit View Tools Help

**Citation analysis**  
 Author impact analysis  
 Journal impact analysis  
 General citation search  
 Multi-query center  
 Web Browser

**Program maintenance**  
 Check for updates

**Help resources**  
 Help contents  
 What's new?  
 2-Minute introduction  
 Frequently Asked Questions  
 Version information  
 Publish or Perish home page  
 The Publish or Perish Book

**The Publish or Perish Book**  
 Going for a job interview? The Publish or Perish book can help you prepare.  
 More about this book...

**Author impact analysis - Perform a citation analysis for one or more authors**

Author's name:

Exclude these names:

Year of publication between:  and:

☒ Biology, Life Sciences, Environmental Science  
☒ Business, Administration, Finance, Economics  
☒ Chemistry and Materials Science  
☒ Engineering, Computer Science, Mathematics  
☒ Medicine, Pharmacology, Veterinary Science  
☒ Physics, Astronomy, Planetary Science  
☒ Social Sciences, Arts, Humanities

**Results**

|             |       |                |       |           |      |           |       |
|-------------|-------|----------------|-------|-----------|------|-----------|-------|
| Papers:     | 45    | Cites/paper:   | 1.24  | h-index:  | 4    | AWCR:     | 15.08 |
| Citations:  | 56    | Cites/author:  | 17.58 | g-index:  | 6    | AW-index: | 3.88  |
| Years:      | 4     | Papers/author: | 13.75 | hc-index: | 5    | AWCRpA:   | 4.71  |
| Cites/year: | 14.00 | Authors/paper: | 3.60  | hi-index: | 1.14 | e-index:  | 4.69  |
|             |       |                |       | hi,norm:  | 2    | hm-index: | 1.78  |

| Cites | Per year | Rank | Authors                  | Title                                    | Year | Publication                    | Publisher                |
|-------|----------|------|--------------------------|--|------|--------------------------------|--------------------------|
| 21    | 5.25     | 1    | AH Lashkari, MMS D...    | A survey on wireless security protoc...  | 2009 | Computer Science and ...       | ieeexplore.ieee.org      |
| 7     | 1.75     | 2    | AH Lashkari, F Tow...    | Wired Equivalent Privacy (WEP)           | 2009 | Future Computer and ...        | ieeexplore.ieee.org      |
| 5     | 1.25     | 3    | AH Lashkari, S Farm...   | Shoulder Surfing attack in graphical ... | 2009 | Arxiv preprint arXiv: ...      | arxiv.org                |
| 5     | 1.25     | 5    | AH Lashkari, M Man...    | Wired Equivalent Privacy (WEP) vers...   | 2009 | ... Conference on Signal ...   | ieeexplore.ieee.org      |
| 4     | 1.33     | 4    | AH Lashkari, D Sale...   | A Wide range Survey on Recall Base...    | 2010 | Arxiv preprint arXiv: ...      | arxiv.org                |
| 2     | 0.50     | 6    | ..., F Towhidi, AH La... | Pure and cued recall-based graphical...  | 2009 | Application of Information ... | ieeexplore.ieee.org      |
| 2     | 0.50     | 7    | AH Lashkari, M Man...    | Wired Equivalent Privacy (WEP) vers...   | 2009 | ICCDA Singapore Conference     |                          |
| 2     | 0.67     | 8    | AH Lashkari, B Parhi...  | Augmented Reality Tourist Catalogu...    | 2010 | Computer Research ...          | ieeexplore.ieee.org      |
| 2     | 0.50     | 13   | AH Lashkari, F Tow...    | A Complete Comparison on Pure and...     | 2009 | ..., 2009. ICCEE'09. ...       | ieeexplore.ieee.org      |
| 1     | 0.50     | 9    | AH Lashkari, AA Ma...    | A Secure Recognition Based Graphic...    | 2011 | Computer and Information ...   | ieeexplore.ieee.org      |
| 1     | 0.25     | 10   | F Towhidi, AH Lashk...   | Binary Decision Diagram (BDD)            | 2009 | Future Computer and ...        | ieeexplore.ieee.org      |
| 1     | 0.33     | 11   | AH Lashkari, B Parhi...  | WIFI-Based Indoor Positioning System     | 2010 | Computer and Network ...       | ieeexplore.ieee.org      |
| 1     | 0.25     | 12   | AH Lashkari...           | A survey on usability and security fe... | 2009 | IJCSNS                         | paper.ijcsns.org         |
| 1     | 0.25     | 14   | AH Lashkari, F Mah...    | A Boolean Model in information retrie... | 2009 | ... and Engineering, 2009. ... | ieeexplore.ieee.org      |
| 1     | 0.50     | 18   | AH Lashkari, A Abd...    | Security Evaluation for Graphical Pas... | 2011 | Digital Information and ...    | Springer                 |
| 0     | 0.00     | 15   | ..., AH Lashkari         | Users' perceptions on mobile devices...  | 2011 | Internet Technology and Se...  | ieeexplore.ieee.org      |
| 0     | 0.00     | 16   | AH Lashkari, A Gani...   | A new algorithm on Graphical User A...   | 2010 | ... Research and Essays        | academicjournals.org     |
| 0     | 0.00     | 17   | ..., B Parhizkar, AH ... | Web-based AR Advertising & Brandl...     | 2012 |                                | ijcsi.org                |
| 0     | 0.00     | 19   | AH Lashkari, S Jaza...   | A survey on Bandwidth Allocation m...    |      | ijcte.org                      |                          |
| 0     | 0.00     | 20   | AH Lashkari, ENG W...    | A New Exam Management System B...        | 2010 |                                | en.scientificcommons.org |
| 0     | 0.00     | 21   | A Habibi Lashkari        | A new algorithm for graphical user a...  | 2010 |                                | dspace.fsktm.um.edu.my   |
| 0     | 0.00     | 22   | B Parhizkar, AAM Al...   | A Survey on Web-based AR Applicat...     | 2011 | Arxiv preprint arXiv: ...      | arxiv.org                |

3.6.4520 0/5m 0/4h 4 total Done



Find the best topic(s)...

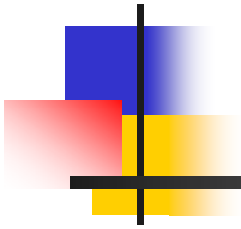
---

## Experts and Professionals?

| No.   | Date | Auth. | Prob. | Key. | Meth. | So. | Ana. | Fin. | F.W. |
|-------|------|-------|-------|------|-------|-----|------|------|------|
| Ref 1 | 2013 |       |       |      |       |     |      |      | FW1  |
| Ref 2 | 2013 |       | FW2   |      |       |     |      |      | FW1  |
| Ref 3 | 2012 |       | FW4   |      |       |     |      |      | FW2  |
| Ref 4 | 2010 |       |       |      |       |     |      |      | FW3  |
| Ref 5 | 2010 |       |       |      |       |     |      |      | FW4  |
| Ref 6 | 2009 |       |       |      |       |     |      |      | FW3  |

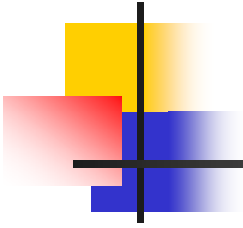
# Methodology:

Last Updated, Most Repeated  
Future Works



## Next Session

Step 2: Understand the difference between  
primary and secondary research



*"There is no way to get  
experience except  
through experience."*