

# Search Engine Report

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## Queries Ran:

zen	Not efficient, but effective (top result has the most frequency)
virtual	Not efficient
school of engineering	Not efficient
cs121	Not efficient, two results but slow af
undergraduate degree	Not efficient
post grad	Not efficient
richard pattis	Not efficient
zot zot	Not efficient, last alphabet
python	Not efficient
Binary tree	Not efficient
Uc irvine	fast
ics	fastest
author	fast
donald	fast
business administration	fast
academic	fast
boolean	fast
array	fast
computer	Common word
science	fast

## Improvements:

Updated tf-idf to use proper formula

Created indexes separated but first two characters of each token

## Post update:

All queries run in under 300ms

ICS Search Engine

Search:

Search

<https://www.ics.uci.edu/~dan/class/267P/datasets/calgary/bib> 16.933637466650953  
<https://cml.ics.uci.edu/category/aiml/page/2/> 16.882770127651735  
<https://www.ics.uci.edu/~eppstein/bibs/eppstein.html> 16.531029783740767  
<https://cml.ics.uci.edu/category/aiml/> 16.402685595230395  
<https://www.ics.uci.edu/faculty/> 16.00328339775091  
<https://www.ics.uci.edu/faculty/index.php> 16.00328339775091  
<https://redmiles.ics.uci.edu/publication/> 15.869185726045615  
[https://www.ics.uci.edu/community/news/notes/notes\\_2007.php](https://www.ics.uci.edu/community/news/notes/notes_2007.php) 15.764126701706349  
[https://www.ics.uci.edu/faculty/faculty\\_dept?department=Computer%20Science](https://www.ics.uci.edu/faculty/faculty_dept?department=Computer%20Science) 15.68385226934603  
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<https://www.ics.uci.edu/~eppstein/bibs/kpath.bib> 15.146648735476978  
<https://www.informatics.uci.edu/explore/books-we-have-written/> 15.127836070568566  
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<https://www.ics.uci.edu/~pattis/quotations.html> 14.807109746617737  
<https://www.ics.uci.edu/~kay/pubs/index.html> 14.243364239275067  
<https://cml.ics.uci.edu/2013/03/spring-2013-2/> 14.095494170575861  
<https://www.informatics.uci.edu/undergrad/bs-computer-game-science/> 13.865792451689678  
<https://www.ics.uci.edu/~eppstein/bibs/subiso.bib> 13.767127691182553  
<https://hack.ics.uci.edu/organizers2018/> 13.59721972735138  
<https://www.informatics.uci.edu/explore/department-seminars/department-seminars-2015-2016/> 13.504156079539786  
<https://www.informatics.uci.edu/ics-welcomes-9-new-faculty-for-2017/> 13.477811093318518  
<https://www.ics.uci.edu/~gopi/Resume.html> 13.278506222842918  
<https://www.informatics.uci.edu/bowker-named-chancellors-professor/> 13.260866676331757  
<https://www.ics.uci.edu/~wscacchi/> 13.23595143231212  
<https://cml.ics.uci.edu/category/news/page/2/> 13.22610008881491  
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<https://www.ics.uci.edu/~kobsa/kobsa-vita.html> 13.047384956513701  
<https://www.informatics.uci.edu/impact/graduate-alumni-spotlights/> 13.030399050252178  
<https://www.informatics.uci.edu/undergrad/bs-information-computer-science/> 13.030399050252178  
<https://www.stat.uci.edu/statistics-department-welcomes-two-new-faculty-for-2017/> 12.94402228055612  
<https://www.informatics.uci.edu/informatics-professor-attends-white-house-summit-on-computer-science-initiative/> 12.82336186054659  
[https://www.ics.uci.edu/community/news/view\\_news.php?id=662](https://www.ics.uci.edu/community/news/view_news.php?id=662) 12.823361860554659  
[https://www.ics.uci.edu/~emj/Mjolsness\\_CV\\_V67p.htm](https://www.ics.uci.edu/~emj/Mjolsness_CV_V67p.htm) 12.812339755790497  
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<https://www.informatics.uci.edu/impact/graduate-alumni-spotlights/victor-gonzalez/> 12.779415448476033  
<https://www.informatics.uci.edu/women-in-information-and-computer-sciences-wics-organization-mentors-and-supports-future-tech/> 12.757704602132518  
<https://www.informatics.uci.edu/explore/department-seminars/department-seminars-2018-2019/> 12.73102349788293  
<https://www.cs.uci.edu/ics-alumnus-nithin-jillas-nonprofit-inspires-students-to-love-stem/> 12.73102349788293  
<https://www.informatics.uci.edu/frost-helps-shape-k-12-computer-science-education/> 12.73102349788293  
<https://www.informatics.uci.edu/founders-of-coding-club-for-kids-in-homeless-shelters-grateful-for-ucis-support/> 12.718884587426