

Information Analysis and Retrieval Employment Resources

SI Career Services has put together this resource to guide you in your job or internship search in the information analysis and retrieval field. Note that this resource is not comprehensive; there are numerous IAR resources available related to the nuances of the field that we could not include in this document. The purpose of this resource is to make you aware of some of the main resources available and to also provide you with gateways to resources that will provide you with further information for the field of your personal interest.

SI Careers is open to suggestions of additions or removals to this resource. If you would like an electronic version of this document, email your request to Kelly Kowatch at kkowatch@umich.edu

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Information Analysis and Retrieval

The Information Analysis and Retrieval specialization is designed to teach students the skills and concepts needed to understand how information is stored in computer systems, how it is searched and analyzed, and how humans access it.

Job Sites

Web IR & IE <http://tech.groups.yahoo.com/group/webir/>
KDnuggets <http://www.kdnuggets.com/>

Professional Organizations

Association for Computing Machinery <http://www.acm.org/>
Association for Computing Machinery Special Interest Group on Information Retrieval
<http://www.acm.org/sigs/sigir/>
Web Analytics Association <http://www.webanalyticsassociation.org/index.asp>
List of Professional Associations in the Information Sciences <http://slisweb.sjsu.edu/resources/orgs.htm>
ASIS&T: The American Society for Information Science and Technology <http://www.asis.org/>
ACL – Association for Computational Linguistics <http://www.aclweb.org/>

Listservs & Newsletters

SIG-IRList <http://www.acm.org/sigs/sigir/sigirlist/index.html>

Blogs & Forums

Research Buzz <http://www.researchbuzz.org/wp/>
Hal Daume III <http://www.cs.utah.edu/~hal/>
Information Engineering <http://lada.si.umich.edu:8080/wordpress/>
Data Mining Text Mining, Visualization and Social Media <http://datamining.typepad.com/>
ResearchBuzz! http://www.researchbuzz.org/2005/09/google_launches_a_blog_search.shtml
Google Blogoscoped <http://blogoscoped.com/>

Student Organizations at SI

SOCHI – Student Organization for Computer-Human Interaction <http://www.si.umich.edu/SOCHI/>

SIMPLE - Society for Information Management, Policy, Law and Economics <http://www.si.umich.edu/simple/>

Potential Employers

Palo Alto Research Center (PARC) <http://www.parc.com/>

Google

Yahoo!

Live.com (Microsoft) <http://www.live.com/>

Amazon

Time Warner

Thomson Corporation

Ask.com

Shopzilla, Inc

Internet Archive

IBM

PowerSelf <http://www.powerself.com/index.htm>

Microsoft Live Labs

Sample Job Titles

Computational Linguist

NL Engineer

Search Network Analyst

Text Mining Specialist

Search Engineer

Search Engine Engineer

Language engineer

Information analyst

Text analyst

Web analyst

Competitive intelligence analyst

Information Designer or Analyst

Web Search Relevance Engineer/Scientist

Software Engineer, Search and Indexing

Video Search Software Engineer

Search Content Analytics Research Engineer

Natural Language Engineer

Professional Magazines and Journals

ACM Transactions on Internet Technology <http://toit.acm.org/>

ACM Transactions on Speech and Language Processing <http://tslp.acm.org/>

ACM Transactions on Asian Language Information Processing <http://talip.acm.org/>

Computational Linguistics

http://portal.acm.org/browse_d1.cfm?linked=1&part=affil&idx=J25&coll=ACM&dl=ACM

Data & Knowledge Engineering

http://www.elsevier.com/wps/find/journaldescription.cws_home/505608/description?navopenmenu=-2

D-Lib Magazine <http://www.dlib.org/>

Foundations and Trends in Information Retrieval <http://www.nowpublishers.com/ir/>

Government Computer News <http://www.gcn.com/>

Information Processing Letters

http://www.elsevier.com/wps/find/journaldescription.cws_home/505612/description#description

Information Processing and Management

(IP&M) http://www.elsevier.com/wps/find/journaldescription.cws_home/244/description#description

Information Retrieval <http://springerlink.metapress.com/content/103814/>

Information Research <http://informationr.net/ir/>

Information Processing & Management: An International Journal

http://www.elsevier.com/wps/find/journaldescription.cws_home/244/description

International Journal on Digital Libraries <http://www.dljournal.org/>

International Journal of Cooperative Information Systems <http://www.worldscinet.com/ijcis/ijcis.shtml>

International Journal on Document Analysis and Recognition

<http://www.springer.com/east/home/computer/imaging?SGWID=5-149-70-1122349-0>

International Journal of Intelligent Information Systems <http://www.springerlink.com/content/100289/>

Journal of the American Society for Information Science and Technology <http://www3.interscience.wiley.com/cgi-bin/jhome/76501873>

Journal of Digital Contents <http://www.formatex.org/jdc/>

Journal of Intelligent Information Systems <http://www.springerlink.com/content/100289/>

Journal of Web Semantics

http://www.elsevier.com/wps/find/journaldescription.cws_home/671322/description#description

Knowledge and Information Systems: An International Journal <http://www.cs.uvm.edu/~kais/>

Natural Language Engineering http://www.cambridge.org/journals/journal_catalogue.asp?mnemonic=nle

Transactions On Information Systems <http://www.acm.org/pubs/tois/>

Transactions on Knowledge and Data Engineering

http://www.computer.org/portal/site/transactions/menuitem.a66ec5ba52117764cfe79d108bcd45f3/index.jsp?&Name=tkde_home/&

Transactions on the Web <http://www.acm.org/tweb/>

Recruiters/Headhunters

CyberCoders <http://softwareengineerjobs.cybercoders.com/>

Red Mill Group <http://redmillgroup.com/hotjobs.html>

Information Analysis and Retrieval Related Websites

Association of Computational Linguistics Wiki/Resources www.ACLWeb.org/aclwiki

Collaborative Filtering <http://www2.sims.berkeley.edu/resources/collab/>

National Centre for Text Mining (UK) <http://www.nactem.ac.uk/>

National Research Council – Institute for Information Technology (Canada) http://iit-iti.nrc-cnrc.gc.ca/r-d/analysis-info-analyse_e.html

O'Reilly XML.com Information Search and Retrieval

http://www.xml.com/pub/rg/Information_Search_and_Retrieval

ISI Web of Knowledge <http://portal.isiknowledge.com/portal.cgi?Init=Yes&SID=2Ej2IMGgN9@6EE6do59>

Microsoft Libra <http://libra.msra.cn/Default.aspx>

InformationR.net <http://informationr.net/>

Digital information in the Information Research field <http://informationr.net/fr/freejnls.html>

Google Scholar <http://scholar.google.com/>

Rexa www.rexa.com

ASK.com

Open Source Information Retrieval Systems

Nutch <http://lucene.apache.org/nutch/>

Glimpse and Webglimpse <http://webglimpse.net/subfeatures/features.html>

ht://dig <http://www.htdig.org/>

Lemur Language Modelling IR Toolkit <http://www.lemurproject.org/>

Lucene [5] Apache Jakarta project <http://lucene.apache.org/java/docs/>

MG full-text retrieval system Now maintained by the Greenstone Digital Library Software Project

<http://www.nzdl.org/html/mg.html>

Smart Early IR engine from Cornell University <ftp://ftp.cs.cornell.edu/pub/smart/>

Terrier TERabyte RetrIEveR, Information Retrieval Platform, written in Java <http://ir.dcs.gla.ac.uk/terrier/>

Wumpus multi-user information retrieval system <http://www.wumpus-search.org/>

Xapian Open source IR platform based on Muscat <http://www.xapian.org/>

Zebra GPL structured text/XML/MARC boolean search IR engine supporting Z39.50 and Web Services

<http://www.indexdata.dk/zebra/>

Zettair, compact and fast search engine written in C, able to handle large amounts of text

<http://www.seg.rmit.edu.au/zettair/>

Other Retrieval Tools

iHOP Information retrieval system for the biomedical domain <http://www.ihop-net.org/UniPub/iHOP/>

MEDIE An intelligent search engine, retrieving biomedical events from Medline <http://www-tsujii.is.s.u-tokyo.ac.jp/medie/>

EBIMed Information retrieval (and extraction) system over Medline <http://www.ebi.ac.uk/Rebholz-srv/ebimed/index.jsp>

Info-PubMed Protein interaction database with 200,000 gene/protein names mined from Medline <https://www-tsujii.is.s.u-tokyo.ac.jp/info-pubmed/>

Sphinx Free SQL full-text search engine <http://www.sphinxsearch.com/>

Michigan Molecular Interaction Database <http://mimi.ncibi.org/MiMI/help.jsp>

Major Information Retrieval Research Groups

Center for Intelligent Information Retrieval at UMASS <http://ciir.cs.umass.edu/>

Information Retrieval at the Language Technologies Institute, Carnegie Mellon University
<http://www.lti.cs.cmu.edu/Research/projects.html#ir>

Information Retrieval at Microsoft Research Cambridge (UK) <http://research.microsoft.com/ir/>

Glasgow Information Retrieval Group (Scotland) <http://ir.dcs.gla.ac.uk/>

CIR Centre for Information Retrieval (Hungary) <http://www.dcs.vein.hu/CIR/>

Centre for Interactive Systems Research at City University, London (UK)

<http://www soi.city.ac.uk/organisation/is/research/cisr/>

IIT Information Retrieval Lab <http://www.ir.iit.edu/>

Information Retrieval Group at Université de Neuchâtel (Switzerland) <http://www2.unine.ch/iun/page4246.html>

PSU Intelligent Systems Research Laboratory <http://iis.ist.psu.edu/>

Information and Language Processing Systems at the University of Amsterdam <http://ilps.science.uva.nl/>

Information Retrieval Laboratory, Harbin Institute of Technology (mainly in Chinese) <http://www.ir-lab.org/>

Information Retrieval Group at the University of Waterloo (Canada) <http://www.ir.uwaterloo.ca/>

Information Retrieval Group at the Queen Mary University of London (UK)

<http://www.dcs.qmul.ac.uk/researchgp/ir/>

Information Retrieval Lab at the University of A Coruña (Spain) <http://www.dc.fi.udc.es/ir/>

Computational Linguistics and Information Retrieval (CLAIR) <http://tangra.si.umich.edu/clair/>

CLAIR NSIR <http://tangra.si.umich.edu/clair/NSIR/html/nsir.cgi>