

**Research Article** 

# Analysis of Google Scholar Top Rated Journals with Special Reference to the Journal "Nature"

#### M. Kavitha and M.N. Venkatesan

Anna Centenary Library, Kotturpuram, Chennai, India

Correspondence should be addressed to M. Kavitha, kaviananth76@gmail.com

Publication Date: 4 July 2013

Article Link: http://scientific.cloud-journals.com/index.php/IJALIS/article/view/Sci-99



Copyright © 2013 M. Kavitha and M.N. Venkatesan. This is an open access article distributed under the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Abstract** This paper attempts to analyze the citation analysis, growth and development of the Journal "Nature", which is top ranked in Google Scholar Metrics. In which the journal nature has the total of 291 articles, were ranked by the impact factor with the growth analysis by the parameter of period. In which the year 2007 has the greater citation (120 articles) than other years. This study also analyses the impact factor of this journal over a period.

Keywords Google Scholar, Metrics, Scientometric Analysis

#### 1. Introduction

Google Scholar allows you to search across a wide range of academic literature. It draws on information from journal publishers, university repositories, and other websites that it has identified as scholarly [15]. Google Scholar provides so many services for Researchers and Scholars. All types of documents like articles thesis books and abstracts etc. available at Google scholar. The main strengths of Google Scholar are its free access and the availability of full texts. Indeed, Google Scholar provides a free view of abstracts to articles that sometimes require a fee subscription to view the full text.

#### 1.1. Features of Google Scholar

- Search diverse sources from one convenient place
- Find articles, thesis, books, abstracts or court opinion
- Locate the complete document through your library or on the web
- Learn about key scholarly literature in any area of research

# 1.2. Google Scholar Metrics

Scholar Metrics provides in its first version a table of the first one hundred journals worldwide by language of publication. These lists are ranked on the basis of the h-index of journals, calculated from the articles published in the last five years (2007-2011). That is, a journal with an h index of 12 (eg, El Profesional de la Información) means that it has published 12 papers with at least 12 citations each. As additional data, the median number of citations obtained by the articles that contribute to the index h is also provided. Obviously, the median value can never be less than the value of the journal's h index. Scholar Metrics uses this indicator (h5median) to rank journals with the same h-index value, which is necessary since, by taking discrete values, this indicator has little discriminatory power.

# 1.3. About the Nature

Nature is the world's most highly cited interdisciplinary science journal, according to the 2010 Journal *Citation Reports* Science Edition (Thomson Reuters, 2011). Its Impact Factor is 36.101. The impact factor of a journal is calculated by dividing the number of citations in a calendar year to the source items published in that journal during the previous two years. It is an independent measure calculated by Thomson Reuters, Philadelphia, and USA [16].

#### 2. Objectives of the Study

The main objective of the study is to present the growth of literature and make the quantitative assessment of Impact Factor. The specific objectives are

- To measure the year-wise growth of publications
- To measure the publisher/frequency wise publication
- To measure the impact factor of publications

#### 3. Methodology

The articles were downloaded from the Google Scholar Metrics for the mentioned period. The records then were exported in to the basic data set created for the study. The overwhelming total of the articles (295) were in English language. Any Scientometric mapping exercise requires a customized database structure so that analytical processing can be executed.

#### 4. Results and Discussion

#### 4.1. Authorwise Publication

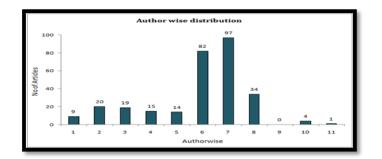
Authorship pattern among the journal "Nature" is given in the Table 1 and Figure 1. Single author contributed papers (9), Two authors contributed (20), three Authors contributed (19) and more than three authors contributed (247). More than three authored publication showed a growing trend.

| S. No. | Author | No. of Count |
|--------|--------|--------------|
| 1      | 1      | 9            |
| 2      | 2      | 20           |
| 3      | 3      | 19           |
| 4      | 4      | 15           |
| 5      | 5      | 14           |
| 6      | 6      | 82           |
| 7      | 7      | 97           |

| 7 | able | 1: | Authorwise     | Publication  |
|---|------|----|----------------|--------------|
|   | anic | •• | / 10/ 10/ 1000 | i upiloution |

| 8  | 8     | 34  |  |
|----|-------|-----|--|
| 9  | 9     | 0   |  |
| 10 | 10    | 4   |  |
| 11 | 11    | 1   |  |
|    | Total | 295 |  |

Figure 1: Authorwise Publication



#### 4.2. Degree of Collaboration

The Degree of collaboration of authors by year wise is shown in Table 2. The extent of Degree of Collaboration by year wise has been calculated. Accordingly, the degree of collaboration has been calculated for the years 2001-2011. The year wise degree of collaboration falls between 0.75 and 0.91.

#### Table 2: Degree of Collaboration

|   | Year      | Single<br>Author | Two<br>Authors | Three<br>Authors | More than Three<br>Authors | Degree of<br>Collaboration |
|---|-----------|------------------|----------------|------------------|----------------------------|----------------------------|
| _ | 2007-2010 | 9                | 20             | 19               | 247                        | 0.96                       |

In the present study, NM = 286 NS = 9 C = 286/286+9 = 0.96

Thus the degree of collaboration 0.96 which clearly indicates its dominance upon individual contribution.

#### 4.3. Publisher/Frequency of Distribution

Table 3 and Figure 2 shows on frequency of distribution of "Nature". Volume 453 published 29 articles then Volume 445, 447, 448 published and equal ranked 22 articles, next Volume 451 distributed 21 articles and so on.

| SI. No. | Publisher/Frequency<br>of Publication | Count |
|---------|---------------------------------------|-------|
| 1       | 445                                   | 22    |
| 2       | 446                                   | 20    |
| 3       | 447                                   | 22    |
| 4       | 448                                   | 22    |

| Table 3: | Frequency | of Distribution |
|----------|-----------|-----------------|
|----------|-----------|-----------------|

| 5  | 449   | 15  |
|----|-------|-----|
| 6  | 450   | 16  |
| 7  | 451   | 21  |
| 8  | 452   | 17  |
| 9  | 453   | 29  |
| 10 | 454   | 11  |
| 11 | 455   | 17  |
| 12 | 456   | 9   |
| 13 | 457   | 10  |
| 14 | 458   | 14  |
| 15 | 459   | 9   |
| 16 | 460   | 7   |
| 17 | 461   | 8   |
| 18 | 462   | 2   |
| 19 | 463   | 3   |
| 20 | 464   | 3   |
| 21 | 466   | 2   |
| 22 | 467   | 2   |
| 23 | Blank | 14  |
|    | Total | 295 |
|    |       |     |

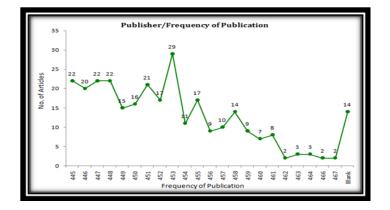


Figure 2: Frequency of Publication

# 4.4. Year Wise Publication of Articles

Whereas the in year 2009, the number of articles published were 120 and next to that the maximum no of articles (119) in 2008 and the least number of articles (8) were published in 2010

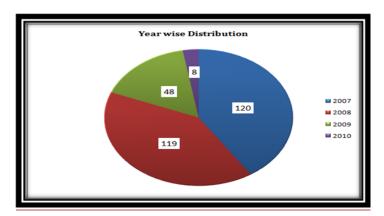


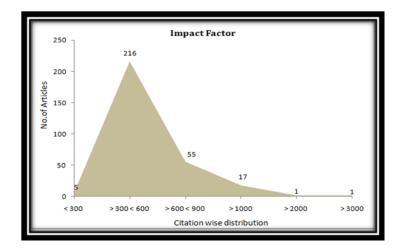
Figure 3: Year wise Publication

#### 4.5. Citation Analysis

The citation analysis was ranging from 300 to as many as 3000 times cited. The article by P.R. Burton, et al., published in the journal of Nature in the year 2007 received 3459 citations being the highest number, while the article written by K.A Frazer et al., in the same year holds second position receiving 2373 citations. Maximum cited articles range between 300-600 times while minimum level 3000 times and above.

Table 4: Citation Analysis

| Citation   | Count |
|------------|-------|
| <300       | 5     |
| > 300 <600 | 216   |
| > 600 <900 | 55    |
| >1000      | 17    |
| >2000      | 1     |
| >3000      | 1     |
| Total      | 295   |



#### Figure 4: Citation Analysis

# 5. Conclusion

This present study revealed that good results in journal of nature of authorship pattern, degree of collaboration, frequency of publication, citation analysis and so on. This present study coincides with the results of price and meadows who had predicted that the future trend would be stronger for collaborative authorship. In over all view Nature is ranked the world's most cited interdisciplinary scientific journal. There are many fields of scientific research in which important new advances and original research are published as either articles or letters in *Nature*.

#### References

- [1] Anil Kumar et al. A Scientometric Analysis, Annals of Library and Information Studies. Pramana - Journal of Physics. 2008. 55. Retrieved from http://eprints.rclis.org/bitstream/10760/14828/2/pramana.pdf
- [2] Arunachalam S. *Mathematical Research in India Today: What Does The Literature Reveal?* Scientometrics. 2001. 52 (2) 235-259.

- [3] Arunachalam S., 2008: Open Access in India: Hopes and Frustrations, Proceedings ELPUB 2008 Conference on electronic Publishing-Toronto, Canada, 271-279.
- [4] Dutt B., et al. Scientometrics of the International Journal Scientometrics. Scientometrics. 2003. 56 (1) 81-93.
- Hood W.W., et al. The Literature of Bibliometrics, Scientometrics, Andinformetrics. Scientometrics. 2001. 52 (2) 291–314.
- [6] Kavitha M., et al. *Scientometric Analysis of Indian Contribution to Mathematical Research.* Journal of Library, Information and Communication Technology. 2011. 3 (1-2) 61-70.
- [7] Kavitha M., et al. Contribution of Open Journal Literature with Special Reference to Mathematics Based on Directory of Open Access Journals (DOAJ). International Journal of Trends in Library and Information Science. 2012. 1 (11) 97-110.
- [8] Mooghali A., et al. Scientometric Analysis of the Scientometric Literature. International Journal of Information Science and Management. 2011. 9 (1). Retrieved from http://www.srlst.com/ijist/Vol9N1/ijism-V9N1\_files/ijism91-19-31.pdf
- [9] Nattar S. A Scientometric Analysis, International Journal of Library and Information Science. Indian Journal of Physics. 2009. 1 (4) 055-061. Retrieved from http://www.academicjournals.org/ijlis/PDF/pdf2009/Sep/Nattar.pdf
- [10]\_Tonta Y., 2007: *The Research Impact of Open Access Journal Articles,* Proceedings\_ELPUB 2007 Conference on electronic Publishing-Vienna, Austria.
- [11] Vimala V., et al. Authorship Pattern and Collaborative Research in the Field of Zoology. Malaysian Journal of Library and Information Science. 1996. 1 (2) 43-50.
- [12] Nature Publishing Group, a division of Macmillan Publishers Limited, 2013 available at http://www.nature.com/nature/ accessed on 22/05/2013.
- [13] Wikimedia Foundation Inc., 2013. http://en.wikipedia.org/wiki/Nature\_(journal)
- [14] Google Scholar available at http://scholar.google.com accessed on 23/05/2013.
- [15] http://www.lib.ncsu.edu/articles/google-scholar/
- [16] http://www.nature.com/nature/about/index.html. accessed on 25/05/2013



**Open Access** 

**Research Article** 

# **Open Source Software: Boon to Digital Libraries**

Sangeeta N. Dhamdhere<sup>1</sup> and Ramdas Lihitkar<sup>2</sup>

<sup>1</sup>Modern College of Arts, Science and Commerce, Ganesh-Khind, Pune, Maharashtra, India <sup>2</sup>Government College of Science, Nagpur, Maharashtra, India

Correspondence should be addressed to Sangeeta N. Dhamdhere, modernlibrary.sangeeta@gmail.com

Publication Date: 22 June 2013

Article Link: http://scientific.cloud-journals.com/index.php/IJALIS/article/view/Sci-100



Copyright © 2013 Sangeeta N. Dhamdhere and Ramdas Lihitkar. This is an open access article distributed under the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Abstract** ABCD – Automation of Libraries and Centers of Documentations is a relatively new Free Open Source Software available to all libraries. It caters almost all present needs of three dimensional libraries of all sizes. This software is boon to all types of libraries those are still under automation and cannot afford to purchase commercial library software. It gives excellent content management solution and Interactive library website as part of the ABCD integrated library automation suite. It has excellent indexing and retrieval features with integrated meta-search and content management system to manage online, offline digital as well as physical resources. Librarians can create their library website without knowledge of HTML programming. Many libraries in the South, esp. Latin America, and Africa are using it very effectively. This paper gives short introduction to the ABCD software and its digital library features along with illustrations.

**Keywords** Open Source Software, FOSS, Digital Library Software, Library Website, Content Management Software

#### 1. Introduction

Library 2.0 is using web 2.0 technologies in the libraries. Open Access Initiatives and Electronic Publishing have made impact on the libraries and their services, facilities. Being free and of very high quality, open source software is often more powerful than many commercially available products. In library industry too now many initiatives like ABCD, Koha, Newgenlib, Evergreen, Greenstone, Dspace, Drupal, Plone, Eprint, Jhoomla etc. have been taken to provide tools for integrated library management, digital library and content management.

Library professionals all over the world are using various web communication tools like Web OPAC, Website, Web blogs, Library portal, Digital libraries, Social networking sites to cater the evolving needs of library patrons. They have to depend on different tools like automation software, digital library software, content management software, and library websites e.g. Koha, Newgenlib, Greenstone, Dspace, Jhoomla are more popular in India.

Unlike other library softwares, ABCD software has some special features like it gives radical openness for database structures. One can create any type of database they want and gives full text capability for digital resources. Libraries can create their interactive website in very easy way using template and linked with social networking sites, RSS feed, etc. So the libraries will find it all in one solution for their library free of cost. Western country libraries started using this software.

#### 2. Background Information

ABCD is the acronym for a software suite for the automation of libraries and documentation centers. In French this is "Automation des Bibliotheques et Centres de Documentacion" in English we can say this as Automation of libraries and Centers of Documentation. This software package provides automation functions not only for the classic libraries but also other information providers such as documentation centers, archives, museums, NGOs, etc. It is developed by BIREME (WHO, Brazil) in collaboration with the Flemish Interuniversity Council, Belgium, and uses ISIS database technology of UNESCO. This software provides flexibility and versatility on top of storage efficiency and retrieval power. Any bibliographic structure can be created and managed by this software along with non-bibliographic structures, e.g. for factual information (events, organizations) with mainly textual content.

# 3. Aims and Objectives

The main aim of ABCD is providing an integrated library management tool covering all main functions in a library starting from acquisition, bibliographic database management, user's management, loans transactions, and serial control up to online end-user searching on local and external bibliographic databases and library portal/website. It allows bibliographic records copying from the main leading libraries like Library of Congress, Oxford University (UK), Yale University (USA), Boston University (USA), University of Toronto (CAN), University of Chile (CHI), Australian National University (AUS) etc. through the Z39.50 protocol, which helps libraries to maintain international standards in bibliographical information such as MARC, CEPAL and AGRIS. It also gives facility to configure any additional Z39.50 servers. Librarians normally don't want to go in detailed programming. Therefore it is designed as a tool for librarians rather than ICT technicians. Only they have to use the 'Formatting Language' of ISIS which allows them to manipulate all data in their databases in a high-granularity way in order to keep full control of it without programming. It is menu driven software and gives help instruction at every step.

#### 3.1. Technical Features

- The software is fully web-based, so can be used and managed from any current web-browser. All main functions of the library management are integrated using the same interface and databases.
- Z39.50 facility: records can be downloaded from external library catalogs / server.

|         | BIREME - Centro Latino Americano e do Caribe<br>Ciências da Saúde | e de informação         |      |                |          |      |     |    |
|---------|---|-------------------------|------|----------------|----------|------|-----|----|
|         |   |                         |      | Bac            |          |      |     |    |
|         | Name  | URL                     | Port | R)             | s Utf-8  |      |     |    |
| 1/64    | USA-Library Of Congress   | z3950.loc.gov           | 7090 | Voyager        |          | 2    | 2   | 0  |
| 2/64    | SPA-Biblioteca de Castilla y Leon                                 | z3950.bdl.jcyl.es       | 210  | AbsysBCL       |          | 3    | 2   | 0  |
| 3/64    | USA-Baylor University Libraries                                   | bearoat baylor edu      | 210  | INNOPAC        |          | 3    | 2   | 0  |
| 4/54    | SPA-Biblioteca P£blica de Zaragoza                                | codos.aragob.es         | 5500 | AbsysE         |          | 3    | 2   | 0  |
| 5/54    | CAN-BibliothŠque Nationale du Qu,bec                              | www.biblinat.gouv.qc.ca | 210  | IRIS           |          | 3    | 2   | 0  |
| 6/54    | CAN-Bishop's University   | 192.197.190.4           | 210  | Advance        |          | 2    | 2   | 0  |
| 7/54    | USA-California Institute of the Arts                              | alpha.calarts.edu       | 210  | MARION         |          | 3    | 2   | 0  |
| 8/54    | USA-Boston University   | 128.197.130.200         | 210  | INNOPAC        |          | 2    | 2   | 0  |
| 9/54    | VEN-Cludad Alejandr;a-Cat.general                                 | 150.185.140.223         | 9999 | bolivar        |          | 3    | 2   | 0  |
| 10/54   | AUS-Commonwealth Scientific and Industrial Research Organisation  | voyager.its.csiro.au    | 7090 | VOYAGER        |          | 3    | 2   | 0  |
|         |   |                         | • F  | irst « Previo  | us » Nex | et 4 | La  | st |
| avascri | ot:Crear()  |                         |      | Local intranet |          | œ    | 100 | 1% |

Figure 1: Server Administration Menu

- Full MARC 21 compatibility as defined by Library of Congress OPAC with simple Google-like and advanced search like Boolean combinations, truncation, field-limitation.
- Gives access to both physical and electronic documents (local as well as on the internet) and managed with same interface.
- Librarians can define, edit any new database structure and also copy database structure from existing ISIS-applications e.g. MARC, CEPAL, UNIMARC, Dublin Core, etc.
- It is available in many languages like English, French, Spanish, and Portuguese while more translations are on their way (as the software offers an easy translation function in its own interface).
- Import and export data in ISO-2709 format and text-formats
- Library portal facility: contents and bibliographic resources (both local and external) can be added easily without HTML-programming.
- Excellent serials management fully implementing the ISSN standard and union catalog function.
- Statistical reports generation with graphical presentation of any defined set of variables in any of the databases.
- Freedom of database structure: ISIS accepts any structure and includes structure-definition tools, and so does ABCD. One can create any type of database and define records and run that database through this software. One can create dead stock database, CDs database, employee database, pictures database, etc. [3].

#### 4. Installation and Download Tips

The software is very easy to install. It contains one package of all the necessary software parts (including Apache web-server and PHP, each with their own configuration). One can download the software for Windows and Linux platforms. One has to only unzip this folder in writeable space (C drive) of the computer. Demo and manuals for new version is available on ABCD software site [2].

# 4.1. ABCD Modules

ABCD software has following modules. Each module has separate login and password. All modules are menu-driven and easy to operate.

- 1. ABCD Central Module: It is a cataloguing module and data entry module.
- 2. ABCD Advanced Loan Module (EmpWeb) caters the advanced loan management system.
- 3. ABCD OPAC allows us to retrieve of all defined catalogs, databases, and websites with simple, intermediate or advanced interfaces. Results can be displayed in any ISIS-format, including hyperlinks to the original documents for digital library functions, select, print, sent-to-email, bookmark in the major social networks and export to XML.
- 4. ABCD Site: A CMS (content management system) is provided for the creation of the ABCD Site using existing template. It enables to create, manage and publish the portal. Link with social networking site, RSS feeds. The site organizes information in a structure that integrates and interconnects databases created or from outside, specialist directories, events, sister institutions, libraries, full texts collection, catalogues of bibliographical resources available on the LAN, WAN or internet. It provides Online Public Access Catalogue or search tool for all types of resources.



Figure 2: Example of Library Website- A Virtual Health Library

- 5. ABCD Serials Control System (SeCS) is an advanced management tool for serials or journals printed and online of all kinds in a single- or multiple libraries setup. There are following main options given:
  - Management of Titles: In this we can add a new serial title and its details (in the full ISSN standard). We can export titles and can send the catalogue of records in union catalogue of serials. One can search the title through a serials index.
  - Management of Titles Plus: allows creating and editing records with local administrative information on the serials. One can maintain issue records in this. Cardex functions are also fully present.
  - Management of Templates: Allows creating and editing masks or templates of serial publication schemes (e.g. 4 issues per volume etc.)
  - Utilities: allows user management, library management, statistical reports of serials by library and database. One can get statistical reports of serials holdings (print, online, free, paid, complimentary subscriptions, exchanged journal issues) [3].

#### 4.2. ABCD as Digital Library Tool

According to the Digital Library Foundation (DLF) "Digital libraries are organizations that provide the resources, including the specialized staff to relate the structure, including the specialized staff to relate the structure, offer intellectual access to the interpret, distribute and preserve the integrity of and ensure the persistence over time of collection by a defined community or set of communities".

Because of open access moment, web technology, online publishing and electronic publishing trend, extensive use of ICT in e-learning education system traditional libraries should convert to digital as the patrons demands are also changing with time. Digital libraries provide efficiency in information delivery, more economic and time saving.

According to Clifford Lynch (1995) "digital library is a system of providing a community to user with coherent access to a large organized repository of information and knowledge."

ABCD software can operate as a digital library tool also with few limitations. Following are technical characteristics which are relevant for digital library applications:

Full-text indexing: the 'classic' ISIS since its early days - one could say from the 'prehistory' of computer science' as we are talking the 1970's! - had capabilities to extract individual words, except for non-meaningful words defined in a 'stop words'-list, from the fields of records in the database and to index these for searching into an 'Inverted File', which contains not only their record and repeated-field identifiers but also their position in the fields (allowing proximity searching e.g.) [1].

Since ABCD is based on ISIS for the data-storage and -retrieval on the one hand, and PHP for the web-interface creation on the other hand, some nice PHP-tools are embedded. E.g. FckEditor is a PHP-library offering a full HTML-editor shown below which can be embedded into a cataloging form to create full documents. Text from Word-documents also can be 'copy- pasted' into a field of an ISIS-record in ABCD by using this tool. The field will be presented as a web (HTML-) document but keeping the word-indexing technique for retrieval [4].



Technical characteristics making ABCD suitable for digital library applications.

Since this software is fully based on the ISIS-database technology [ref], it inherits the following technical characteristics which are relevant for digital library applications :

- freedom of database structure : ISIS records carry their individual structural description as a header with themselves, unlike in relational hable/based databases where all records in the same table share the same structure by necessity, and therefore each record can have its own, different structure. In fact for most record-related operations there is no need to formally describe the structure even, so one could consider ISIS as 'scheme-less' records. As a consequence of this, ISIS accepts any structure and includes structure-definition bols, and so does <u>ABCD</u>.
- Foul-lext indexing : the 'classic' ISIS (for a non-classic new upcoming version, see infta) since its early days (one could say from the [prehistory' of computer science] had capabilities to extract individual words (except for non-meaningful words defined in a 'stopygogs' list) from the fields of records in the database and index these for searching into an 'Inverted File', which contained not only their record and field identifiers but also their position in the fields (allowing proximity searching e.g.).
- Since ABCD is based on ISIS for the data-storage and -retrieval on the one hand, and BUC for the web-interface creation on the oher hand, some nice BUC-tools are embedded. E.g. ExtEdUtor is a BUC-tibrary offering a full HTML-extinn which can be embedded into a cataloging form to create full documents. Text from Word-documents also can be 'copy-pasted' into a field of an ISIS-record in ABCD by using this tool. The field will be presented as a web (HTML-)document but keeping the word-indexing technique for retrieval.

Figure 3: Example of How to Add Text Using FCK Editor in the Field

The use of non-Latin scripts: ABCD can use non-Latin scripts (e.g. Amharic, Chinese, and Greek) as part of the web-browser capabilities. ABCD team did successful tests on ABCD dealing with Amharic records (in the Ethiopian implementations) and records in Indian languages (in the workshops) too, whereas also an Amharic and Hindi version of ABCD is being prepared [4].

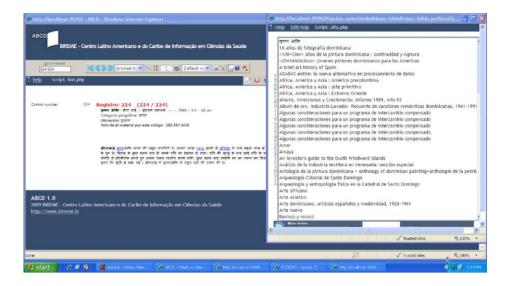


Figure 4: Example Shows Indexing of Records in Multiple Language

Further on in this article we will suggest some ideas for more fundamental extensions of the software for digital library purposes, including PDF word indexing, UNICODE and dropping storage limits for larger documents.

In view of the above described possibilities of ABCD, the software can deal with – but within the 1Mb per record limit – a multitude of non-classical library or collection types : collections of theses in higher education institutes, collections of URL's and web-sites and scientific abstracts databases.

#### 4.3. Theses

In the example of theses given below, most of these will be stored as PDF's. ABCD now able to implement PFD-text extractor unit – index PDF's, the meta-data of these documents (in fact much better than in Greenstone where the pure XML-storage without a real database-structure of the metadata means that larger collections of metadata will slow down the system considerably).

In the illustration here, taken from the sample CEPAL-database which was already part of the original first-release of ABCD, we show part of a record (right-truncated as image) not only showing images related to the record (covers of the books) but some hyperlinks, of which the first link is a PDF-link :



Figure 5: Example of Record Showing Images, Hyperlinks, PDF Links in the Record

**4.3.1.** A Collection of Web-sites The example of a web-page collection poses less problems, because web-pages mostly are not larger than the current ISIS-limits and HTML (or XHTML) is puretext information, so can be fully contained inside an ABCD-record. ABCD (or in fact ISIS) can then fully index all words in the records as its normal operational work for retrieval.

**4.3.2.** *Institutional Repositories* We can create separated database for different electronic materials like photos, sound, videos, patents, pdf, word files and other scanned material of the institute and make them available on the OPAC or site. The facility to protect document is one better feature in ABCD. One can protect the document with password.

**4.3.3.** *Scientific Abstracts* Science community is more focused on abstracts of articles while searching the information as well written abstracts represents the core value and results of scientific research in themselves. Therefore now a day's many KPOs are busy in preparing abstract databases for publishers. If full text indexed, they provide very handy access to immense scientific knowledge stored in databases. These abstracts can always be stored and indexed by ISIS. ISIS has no difficulties in dealing with the typical larger numbers of such abstracts; we e.g. ran tests on the full TEEAL database converted to ABCD (see the illustration below) and BIREME has a large experience in doing millions of such records with ISIS-technology [4].

|                    | - Centro Latino Americano e do Caribe de Informação em Ciência: d  | Database   |
|--------------------|--|--|
| 3/281080           | Default value  | Display format: TE Worksheet   |
| RECID              | 24   |  |
| Population         | TEEAL1   |  |
| Firstpage          | 4  |  |
| CD_Volume          | 2  |  |
| Serialno.          | 0375-1589  |  |
| Journal title      | South African Journal of Animal Science  |  |
| Year               | 1993   |  |
| Volume             | 23   | A  |
| Number             | 1  |  |
| Author             | Schoeman S J<br>Wet R de<br>Merwe C A van der  |  |
| Author association | Department of Livestock Science, University of Pretori   | a, Pretoria 0002, South Africa   |
| Title              | A comparison between female lambs of the Dorper an   | two synthetic composites with respect to feed intake, growth and efficiency  |
| Abstract           | recorded weekly over a period of 34 wk, starting at app<br>Dorpers-Food consumption and body weight gain wer<br>and slope for the 2 traits differed between Dorpers and<br>still a tendency for the Dorpers to have a higher food in | <sup>12</sup> synthetic lines were individually fed in metabolic cages and individual food intake and weight gain were<br>rox-100 days of age-The data on the 2 synthetic lines were pooled and compared with the data on<br>55 and 45.5% higher (Pless than or equal to 0.05) in Dorpers than in the synthetic groups-Both inforcept<br>synthetics-After adjusting for differences in mature body weight at equal degrees of maturity, there was<br>take (by 13.7%) feative to metabolic size and to be less efficient (9.7%) than the synthetic groups-No<br>was evident at equal degrees of maturity, which indicates that differences in growth rate are only related to |
| Acc.no.            | 930108470  |  |
| Language           | English  |  |

A sample record of TEEAL in ABCD:

Figure 6: Example Shows How to Create Abstract Database

# 4.4. A PHP-Extension for PDF-Indexing in ABCD

ABCD team has successfully worked on a PHP-based extractor of words from PDF-documents. The idea is to store the extracted words of the PDF into the record and apply the traditional ISIS- indexing on it for retrieval and presentation of the document, with a (hyper-) link to the original PDF- formatted document.

This extension of files based on an approach similar to the one already used in ABCD for loading images into records : in fact not the images themselves but the URL's to the image files, kept within the realm of the web-server (ABCD mostly uses Apache) for access rights reasons, are stored : First an icon is presented next to a field for uploading a file.

When clicking on this upload-icon, a dialog is presented to identify the file to be uploaded (in our case it would be a PDF):

| Store in: //var/www/ABCD/www/htdocs/bases/users/ |        |
|--|--------|
| File   |        |
|  | Browse |
| Upload file                                      |        |

Figure 7: Shows How to Upload Multimedia Files in the Field

Now, unlike with a picture (of loan system users in the example above), where simply the file has to be stored into the given location (and ABCD creates the hyperlink automatically based on this location and the file-name), in the case of the PDF-extractor, the PDF-to-text converted will be launched and actually extract all words into a text file. This text file will act as the input file for a command by which ISIS (the mx-tool of the CISIS-utilities package) can create a field of a record into the database, taking and indexing all words of that input-file [4].

The mx-utility is a full ISIS-engine running from the command-line which can take a multitude of parameters, some of them identifying the input to act on (e.g. a database, an ISO-file, the console, or in our case: a sequential file): mx seq/1m=filename where the /1m optional parameter indicates the use of the much-higher-than-standard 1 megabyte option and the filename would be the output of the PDF extractor control. ABCD avails a whole set of such command-line 'CISIS' tools for advanced database management. Everything not available from the ABCD-interface can be found here. Mx, like ISIS, can also run a process (with the 'proc=' parameter) to add the output of the processing of the input (in our case: the words from the PDF) into a field of the actual record [2, 4].

Standard ISIS-capabilities to full-text index this field then will be applied and all words of the PDF are then available for searching. The record will be displayed as text format (like Greenstone does) and the PDF itself will be available by a hyper-link (again as does Greenstone) [4].

#### 4.5. Integration into the ABCD Meta-Search Portal

ABCD has, as one of the suite-parts, a full-fledged CMS to create a portal, integrating not only links to external information resources and messages for the users in the same web-page with the links to the OPAC's of the databases available, but also providing a simple search box in which a Google-like search statement can be sent out to interrogate all defined databases. These can be both local ISIS- databases (e.g. the catalog to the books on the shelves, but also the digital library collections!) and remote databases in ISIS-format.

ABCD search performs one by one databases and results of these searches presented separately (so not a real 'federated search'). So users could search in one effort both the physical library collections and the digital libraries, since all these are just ABCD-databases combined in the ABCD-Site. This might be a real added-value solution as compared to using e.g. Greenstone next to the classic library catalog software [4].

| home  | > ABCD Search                           |
|-------|---|
| Entry | one or more words                       |
| hiv   |   |
| Resu  | llt                                     |
| Data  | base (26 Result)                        |
| MA    | RC (26)                                 |
| CE    | PAL (0)                                 |
| DB    | LIL (O)                                 |
| Se    | rials (Main) (0)                        |
| Ope   | n Access Scientific Journals (0 Result) |
| Ever  | nts directory (35 Result)               |
| Ev    | ents directory (35)                     |
| LIS-  | Health Information Locator (485 Result) |
|       |   |

Figure 8: Advanced Search from Multiple Databases

#### 4.6. The ABCD Site CMS as a Solution for Libraries in the South

In the South - on the WWW, the ABCD site Content Management System (CMS) is a powerful tool for libraries to create library websites and is basically meant for libraries only, as part of the ABCD library automation software suite. The ABCD site CMS, as part of the free ABCD software for library automation and digital libraries [2], supports the design of a library website for any library, irrespective of whatever software used. Many libraries in the South, esp. Latin America are using it very effectively. It does not require programming skills, only adding information in the CMS worksheets provided. Application of Web 2.0 tools and access to dynamic electronic resources is rather easy to incorporate into the ABCD Site.

The ABCD-Site (Content Management System) is an integral tool which enables libraries to create, manage and publish their site. It is a customized partial version of the Virtual Health Library (VHL)-Site, produced and maintained by BIREME (a WHO-organization in Brazil).

A Virtual Library is a model for the management of information and knowledge. It is ideal example of cooperation and convergence between institutions, systems, networks, users and resources in the local, national, regional and international information network favoring open and universal access.

As discussed before libraries can link the various databases, directories, events of institutions, sister institutes, libraries, catalogues of various resources available online paid and free and full text databases and give search to all above also links library with social networking sites and make it interactive.

The possibilities of the ABCD Site CMS are discussed below:

The ABCD-Site currently has interfaces in 4 languages and it is possible to work in any number or combinations of these languages. The websites themselves can be in any language. The content of each interface is managed separately with the use of a code and a password.

In ABCD-Site administration system there are two types of users one Administrator who has full access to all areas of ABCD whole site and another is Content manager who is restricted to only the component areas of site i.e. contents.

#### 4.7. Possibilities of the ABCD Site CMS

The ABCD Site CMS allows librarians to build their own website themselves without any knowledge of web-technology or HTML-coding. A whole range of elements can be presented in a rather wellstructured way. The own resources (catalogs, databases) will be accessible directly from the website with an integrated search facility ('metasearch') but surrounded by other resources and information from both the Web 1.0 era (links to external information) and the Web 2.0 (interaction with users). The principal elements of such a web-site are discussed here [4].

**4.7.1.** *General Tools* These are related to features available in any ABCD content management window, whether in STRUCTURE, COMPONENTS or ACCESS. Each service box helps us to design the website as per our need, e.g. to add items according to the type of contents existing that section, modify content, delete content and save the changes made in that section and records them into the interface files.

**4.7.2.** *Item-Lists* List the items according to the type of content existing in the section. The information is shown in a hierarchical way, determining how it is displayed in the ABCD site. Up and down arrows enable us to change the sequence, while left-right arrows allow positioning the item correctly in the hierarchy of the page.

**4.7.3.** *Specific Tools* These vary according to the type available for each component of the system. To illustrate the multitude of possible elements we list them here with a very brief description [5].

The Structure Area Management:

- ABCD Logo: adds URL of the logo and URL for the responsible organization providing ABCD. Local images and logos will add a lot to a 'localized' look-and-feeling of the site.
- Identification: shows the software name-ABCD that will be displayed in the banner and at the top of the administration system page. One can edit it.
- Contact: enables to add E-mail to contact the person(s) responsible for managing and administrating this ABCD software. More than one address can be registered, which in the public interface will look in the form of combo box.
- Version: makes available public interfaces in other languages. English, French, Spanish, Portuguese language interfaces are available currently in the administration module. One can add other languages too like Hindi, Marathi, Philippines, up to 9 in total.
- Institution: enables to add institutions or organization or university name, image/logo and link for reference.
- Meta-information: It enables to verify and edit labels of research services available on the public interface.
- Responsible institution: Here host institutes can enter data for contacting the institution in charge of the Site, address and phone no, etc on the site footnote.
- Meta information of the site: is the space for description of ABCD, which allows ABCD to be indexed and retrieved by web browsers. It also allows to enter description of author, keyword and description, etc. figure shows how easy to add information in the site.

| Metainfo   <u>Save</u>            | 🕲 Change metainfo - Mozilla Firefox                 |
|-----------------------------------|---|
|                                   | localhost:9090/site/php/xmlRoot.php                 |
| Metainfo list                     | Metainfo@ @Available                                |
| author<br>keywords<br>description | Tag<br>author                                       |
|                                   | Content<br>Maputo <u>ABCD-workshop</u> participants |
| -                                 | Cone Cone Cone Cone Cone Cone Cone Cone             |
|                                   |   |
| t J<br>move move<br>up down       |   |

Figure 9: Shows How to Add Information in the Site

- Texts: manages the list comprising all labels and image URLs that identify common actions and areas of the ABCD site, other than the search services. A lot of localization re language and terminology is possible here.
- File manager: allows the uploading of local files to a dedicated are of the server into a directory which can be defined by the manager.
- The administrator can filter the type of files admitted to upload, modifying the variable in the configuration file. It is recommended to design a clear strategy of filing archives in this area classifying them by type. It is recommended to prepare a balanced hierarchical structure if quantity of files is more of one class, so that there are not too many files in a folder at the same level.
- Components: This part of the Site enables administration of the system via "columns" subdivided into components (or content types), with no limits as to the number of component inside each one of them in that:

**Column 1** – links to other Libraries or related portals.

**Column 2** – collection of ABCD information sources (local as well as non-local). **Column 3** – this column provides space for displaying highlights, news, etc.

| Visual Identity,<br>colours and<br>design |  | ABCD - Integrated Library System  | boyday (adoptional)   |  |
|---|--|---|---|--|
| Column 1                                  | Network<br>VHL<br>SoELO<br>Institution 1   | ABCD Meta Search<br>Ediy out ir non works<br>Basett<br>Database                                     | Warnings<br>The ABCD Site is under<br>development<br>Newsletter | Component<br>metasearch                      |
| Networks and<br>ABCD<br>Innitiatives      | Institution 3  | MARC<br>CEPAL<br>SERALS<br>DBLR. demo   | Bulletin of your ibrary   | Column 3<br>Highlights<br>Newsletters        |
| Footer:                                   |  | Service<br>Services you provide, like online reference deak<br>Other service like document delivery | Inform  | n 2 – Network of<br>nation Sources<br>avices |
| Institutional<br>information,<br>location | <u> </u>   | Directories, Portals<br>(vents directory<br>US-Itealth Information Locator                          |   |  |
|   | ExitEXE - PAND - WHO<br>Latin-American and Caribbean Carib<br>Rue Beturatu. 852 - cep 04223-301 +<br>Tel: (35 11) 5070-8000 - Fax: (35 11) 5 | Go PauloSP - Breal  |   |  |

Figure 10: Three Main Components of ABCD Site

A basic list of the 3 ABCD site columns is illustrated below. By clicking on any of these, more detailed settings can be edited while the CMS itself will translate all these settings into the proper HTML-coding [5].

| Administration: ABCD - Integrated Library System  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Component   Available I Save  |  |  |  |  |  |  |
| Component list<br>First column<br>Network<br>Second column<br>Database<br>Service<br>Directories, Portals<br>Third column<br>Newsletter |  |  |  |  |  |  |
| ← → ↑ ↓<br>decrease increase move move<br>level level up down   |  |  |  |  |  |  |

Figure 11: Columns Administration Window

# 4.8. Sources Collection for the Meta-Search

Information Sources is probably the most important – therefore central – part of the Site: ABCD-based resources/databases can be included into the list, making them part of the 'meta-search' integrated approach (the search key will be searched in all listed and active resources with results displayed separately) [5].

|   | Administration: A B C D PORTA   |
|---|---|
| Information sources   <u>Save</u>                             | ( Modify information source - Mozilla Firefox                           |
|   | ☐ localhost:9090/site/php/xmlRoot.php ☆                                 |
| new modify delete   | Information source & Available • & Available • Exit                     |
| Information sources list<br>Database<br>MARC<br>CEPAL         | ≓<br>Name   |
| DOAJ<br>DigLib  | Directory of Open Access Journals                                       |
|   | Link<br>/cgi-bin/wxis.exe/iah/scripts/?lsisScript=iah.xis⟨=en&base=DOAJ |
| <b></b>   | Description (XHTML)<br><u>click here to launch XHTML editor</u>         |
| ← → ↑ ↓<br>decrease increase move move<br>level level up down |   |
|   | Done  |

Figure 12: Shows How to Add Information Sources in the List

Its output on the site will be something like e.g.: (example taken from the Virtual Health Library)

| > ABCD Search                         |        |
|---------------------------------------|--------|
| Entry one or more words               |        |
|                                       | Search |
| Information Sources                   |        |
| Database<br>MARC, CEPAL, DOAJ, DigLib |        |
| Scientific Literature                 |        |
| Open Access Scientific Journals       |        |

Figure 13: VHL Advanced Search Menu

**4.8.1.** *Portal Web Page* The ABCD Site can be used to contain links to second level pages (therefore acting as a portal), edited in XHTML (with a built-in easy HTML-editor). An example from the VHL is shown here:



Figure 14: VHL Portal Showing External Link

**4.8.2.** *Communities* It enables to do registration to online communities like virtual communities, forums, etc.

4.8.3. Portals It enables to connect different links to other web portals related to ABCD.

**4.8.4.** *RSS* It enables to create links with news agencies that make the RSS feature available to users.

An example for a typical element in this communication area of ABCD site is shown here, as a result of copy/pasting some commonly available HTML-code for Twitter and Face book into the dedicated XHTML-editor field of the CMS (shown in right part of the illustration):



Figure 15: Shows How to Edit HTML Pages for Any Changes

#### 4.9. ACCESS Management

This last part refers to the management of users, rights, passwords and those responsible for the administration of ABCD. Here administrator can add, edit or delete the registration of users and passwords to limit the management of the Interface.

#### 4.10. Dealing with the Graphical Design

Since ABCD uses CSS-techniques all the way, it is relatively easy to change the overall 'style' or 'theme' of the website, e.g. by adding background pictures, colors and other graphical elements.

#### 4.11. Some Examples

Esp. in the context of the 'Virtual Health Library' in many Latin American countries one can find many websites created with this CMS, which became integrated into ABCD as the ABCD Site CMS. Although, as is intended, with many different layouts and contents, one can mostly still easily recognize the main basic 3-parts structure of such a website with the central 'meta-search' part somehow built in.

The first example is a full-blown example of BIREME's VHL site itself.

| togin for services    |  |  |                        |   |  |  |  |
|-----------------------|--|--|------------------------|---|--|--|--|
| on demand             | Enter one or more words  | All induces  | All counces            | The second second   | Contraction of the state of the |  |  |
|                       | method: @integrated Oiby vends Ogoogl                            | les .  |                        |   | PAHO Celebrates 109 Years  |  |  |
| Network               | search by DeCS/MeSH descriptor                                   | 0  |                        |   | PARTO CONDITION TON TENES  |  |  |
| ountries<br>bernes    | Information Sources  |  |                        |   | 1 2  |  |  |
| IL.                   | Dibliographic Search   |  |                        |   | — 🦛 Social Networks  |  |  |
| () Countries          | General Health Sciences  |  |                        |   | You  |  |  |
| m Themes<br>VSP       | LILACS, IDECS, MEDLINE, The Cochrane L                           | lbrary, SciELO   |                        |   |  |  |  |
| (D) Countries         | Evidence Portal<br>Systematic Reviews, Clinical Trials, Evidence | e Summaries, Heat  | th Economic Evaluation | one, Health Technology  |  |  |  |
| PORTUGUÉSE            | Assessments, Clinical Practice Guidelines                        |  |                        | in a second s | Newsletter VIII.   |  |  |
| VIPNet                | Specialized Areas<br>CidSaúde, DESASTRES, HISA, HOMEOINI         | NEX-LEVES MED  | CARIB, REPIDISCA       |   | VHL News Network   |  |  |
| HIL<br>HELO           | International Agencies   |  |                        |   | VHL Network discusses strategic priorities to<br>cooperation<br>Necobelas: courses take place in Portugal ar<br>Argontina<br>VHL ePORTUGUÊSer access to intermation  |  |  |
| 00 Countries          | PAHO, WHOLIS<br>HIL- Health Information Locator                  |  |                        |   |  |  |  |
| III Themes            | DeCS- Health Terminology   |  |                        |   |  |  |  |
| cienTI<br>ropliKA.net | Document Access  | Portuguese-speaking countries<br>Brazilian Octortology VHL promotes distance<br>learning course<br>Infographice promote scientific and technical |                        |   |  |  |  |
| ropan marca           | SCAD - Cooperative Service for Acces                             |  |                        |   |  |  |  |
|                       | Directories, Portais   |  |                        |   |  |  |  |
|                       | Events directory   |  |                        |   | information  |  |  |
|                       | VHL network directory  | MHL Veterinary Medicine provides contents<br>three languages   |                        |   |  |  |  |
|                       | Health Scientific Communication                                  |  |                        |   |  |  |  |
|                       | Communication  |  |                        |   | Events on Health   |  |  |
|                       | Virtual Communities / Online Collabor                            | Virtual Communities / Online Collaborative Spaces  |                        |   | Recentriciand your event   |  |  |
|                       | Newsletter   VHL Network News                                    |  |                        |   | 08 - 10 March 2012<br>XVII World Congress off Echocardiography ar  |  |  |
|                       | Press relation   |  |                        |   | Alled Techniques, 2º Congresso do  |  |  |
|                       | About the VHL  |  |                        |   | Departamento de Imagem Cardiovascular da<br>SBC 24º Congresso Brasileiro de  |  |  |
|                       | About BIREME   |  |                        |   | E cocercilografia<br>15 - 19 May 2012  |  |  |
|                       | About VHL model  |  |                        |   | VII Encontro de Pós-Oraduação Faculdade de   |  |  |
|                       | ISIS Family, Methodologies and applications                      | 6  |                        |   | Medicine de Bolucetu   |  |  |
|                       | Events<br>MIL Meetings, Courses, Seminars, CRICS :               | Series   |                        |   | 20 - 22 June 2012<br>XXXIII Congresso de Sociedade Brasileira de<br>Hemodinâmica e Cardiologia Intervencionista  |  |  |
|                       |  |  |                        |   | 30 June - 04 July 2013<br>The XIII International Congress of Toxicology  |  |  |

Figure 16: Virtual Health Library

The second example is a more typical one, created in 2-hours session on the ABCD-Site in a ABCDworkshop (in this case a workshop in Maputo, Mozambique, December 2011 conducted by Egbert De Smet), where all the elements were created by the participants as a hands-on training on ABCD.

The ABCD Site Content Management System is suitable for all types of libraries in developed and developing countries. The example of Virtual Health Library and their allied libraries mentioned above illustrates its excellent functionality, presenting a wealth of information sources around its own 'metasearch' core for availing local information. As this tool is for libraries in any type of institutes and quite easy to manage and create, it can be used to publish and share all types of information and library services.



Figure 17: Universidate Eduardo Mondlane Site

# 4.12. ABCD as a Digital Library Tool

UNESCO is supported efforts to re-design, quite drastically, the storage and indexing engine of ISIS by replacing the 'classic' technology of ISIS by a new database (Berkeley DB, see http://www.oracle.com/technetwork/database/berkeleydb/overview/index.html) based on the same no-

SQL principles of ISIS where records are just numerical identifiers followed by an 'object' which could be either an ISO-2709 record, a BLOB, an XML-record etc.) and a new indexer: Lucene is widely used nowadays for full-text indexing and adds to the existing features of the ISIS-query language things like relevance ranking and search- keys without limits.

In new beta version of ABCD one can manage videos, pictures, music files, text files, pdf files and other records very easily and size of file is not a problem. One can adjust the record size as per their wish and as per the capacity of their server. So libraries can use it effectively and easily.

The team is now at final stage of using the rich Java- based libraries for extracting words from PDFand other document-formats (see e.g. PDF Box at http://java-source.net/open-source/pdf-libraries/pdfbox) While Lucene has no problem indexing huge amounts of such text-files.

#### 5. Conclusion

To cope with the all modern technologies coming up for the benefit of users and librarians, to cope up with the shrinking library budget, to cope up with online and offline resources, and to fulfill users demands, some open source softwares like ABCD are offering an excellent solution for all types of libraries along with other free open source softwares. This article covers basic information about ABCD software. Libraries can make use of this open source tool for library automation easily without any technological background, staying close to the librarian's views on library automation.

# References

- [1] Egbert De Smet. *The ISIS-Software Family: From 'Free and Open' To 'Free and Open Source Software'*. Innovation Journal of Appropriate Librarianship and Information Work. 2008.
- [2] Egbert De Smet. ABCD: A New FOSS Library Automation Solution Based on ISIS. Information Development. 2009. 25; 61-67.
- [3] Egbert De Smet., et al. *ABCD: An Open Source Automation Tool for Libraries.* Pearl: A Journal of Library and Information Science. 2010. 4 (5) 215-219.
- [4] Egbert De Smet., 2011: *ABCD as Digital Library Tool.* International Conference on Digital Libraries and Knowledge Organization. New Delhi, India.
- BIREME, 2010: ABCD Site Administration Manual. Available at http://bvsmodelo.bvsalud.org/download/abcd/manuais/ABCD-Site-Manual.4.0\_en-OfficialVersion.pdf



**Research Article** 

# Bibliometric Analysis of Electronic Journal of Knowledge Management

#### S. Thanuskodi and P. Umamaheswari

Department of Library and Information Science, Alagappa University, Karaikudi, Tamilnadu, India

Correspondence should be addressed to S. Thanuskodi, thanuskodi\_s@yahoo.com

Publication Date: 22 June 2013

Article Link: http://scientific.cloud-journals.com/index.php/IJALIS/article/view/Sci-101



Copyright © 2013 S. Thanuskodi and P. Umamaheswari. This is an open access article distributed under the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Abstract** Bibliometric analysis typically utilizes documents primarily publications or patents to analyze trends in science and innovation. A variety of data analysis methods are employed during Bibliometric analysis, including: co-authorship analysis, co-citation analysis. The study reveals that out of 197 articles joint authors contributed 124 (62.94%) articles while the rest 73 (37.06%) articles were contributed by single author. The study shows that the highest contributions were from universities with 75 (38.07%). This is followed by research institutions with 47 (23.86%), Colleges 33 (16.75%) and government departments 18 (9.14%). The remaining 24 articles (12.18%) were contributed by societies.

**Keywords** *Bibliometrics, Bibliography, Authorship Pattern, Source of Information, Geographical Distribution, Citation, Websites, Dissertations* 

#### 1. Introduction

During the last two decades, libraries have shown a considerable degree of momentum in the collection of building and readership programme activities, involving considerable expenditure of funds. This rapid development of libraries has, as a consequence, generated several evaluator studies on the usefulness of libraries to society. Until recently evaluations were subjective based purely on opinions expressed by an individual or group of individuals. However developments in the fields of mathematics, statistics, operations research management science, economics and systems analysis have lead to minimization of this subjectivity in evaluation. In particular, the systems analysis approach has led to the identification and application of appropriate of quantitative measuring techniques for evaluating the effectiveness and efficiency of information services offered by these librarians.

The application of quantitative technique to libraries was until recently known as statistical bibliography. It was coined by Hulme in 1923. In December 1969, in "Statistical Bibliography or Bibliometrics?" he stated, "the term [statistical bibliography] is clumsy, not very descriptive, and can

be confused with statistics itself or bibliographies on statistics" [1]. As a result of the prompting of his friend, M.G. Kendall, Pritchard suggested that the word "Bibliometrics, i.e., the application of mathematics and statistical methods to books and other media of communication" be substituted for "Statistical Bibliography" [1].

# 2. Bibliography

Through the centuries, the meaning of "Bibliography" has undergone a series of changes, some of which are considered here. Monks, in copying manuscripts, also made lists of the books being copied; these lists, catalogs, or inventories are considered early bibliographies. At first, there were only limited numbers of lists of books or catalogs. Georg Schneider suggested this was because of lack of titles, limited need, and a limited area. He stated that, in the narrow sense, bibliography is a "study of lists of books" and further suggested that "true [i.e., modern] bibliography" began in 1564 when Georg Willer of Augsburg published his catalog of books, a listing for sale by him at the Frankfurt fair [2]. From individual listings, bibliography progressed to the attempt to produce a "world bibliography". Konrad Gesner (1545) made the "first attempt to collect in one list all the scholarly publications of the world in bibliographic form," [2] resulting in his having been acclaimed the "Father of Bibliography," [2, 3] but here, there is a difference of opinion. Archer Taylor claimed, "we may conveniently date bibliography from the activities of Johannes Tritheim, a practical and theoretical bibliographer of the late fifteenth century," but he agreed that "another man who was to display an even greater ability as a bibliographer" was Conrad Gesner. Between 1600 and 1700, bibliographies on particular subjects were published; these "are descriptive accounts of the literature of the subjects they deal with rather than catalogues of books" [3].

#### 3. Review of Literature

Baburajan (1988) [4] described the importance of scientific journals as a primary source of current information especially in the field of Engineering and Allied Sciences. A Bibliometric analysis of Institute of Electrical and Electronics Engineers Transactions on Computers, the most authentic in its field, is made to choose 4 volumes published during 1982-1985 as samples. The main features analyzed were nature and scope of papers, distribution by subject, source of contribution by country and institution, authorship pattern, currency and length of papers.

Zhuk et al (1990) [5] discussed the scientometric study of the information flow in the field of 'plasmochemical synthesis' and 'polymer membranes' recorded through Datastar and STN. The results show that the first paper on 'plasmochemical synthesis' was published in 1976. The very high growth rate of the published literature is the result of an increasing interest in the two fields as well as of a theoretical basis created in the 1970's.

Ullah (1994) [6] investigated the contribution of Indian hydrologists and experts in water resources to 100 volumes of the Journal of Hydrology, for the period 1981 to 1993, with regard to major disciplines, authorship patterns of articles, research collaboration, institution-wise output and authors' identification. A large number of contributions come from Indian authors with a large proportion of the output coming from a few organizations. Indian hydrologists are principally concerned with groundwater related issues.

Ramesh Babu and Nandini Muthusamy (1998) [7] has conducted a Bibliometric study of the articles published in the *"International Library Review"* during 1987-1991.

Narendra Kumar and Ramesh Babu (1999) [8] analyzed the literature published in 'ILA Bulletin' during the year 1986-1996 discussing authorship pattern, citation pattern, subjects covered, ranking of the contributors, nature of contributions, bibliographic forms, of cited documents etc.,

Wagner-Dobler (2001) [9] examined the series of collaboration trends indicated through co-authorship since 1800 in mathematics, logic and physics. In physics, the share of co-authored papers expanded in the second half of the 19<sup>th</sup> Century, in mathematics in the first decades of the 20<sup>th</sup> century and in logic in the second half of the 20<sup>th</sup> century. Sub disciplines of mathematics, physics, and logic showed large differences in their respective propensities to collaborate.

Das (2001) [10] observed the collaboration pattern in computer science research in India. The study covering 1408 research papers was published in international journals on computer science contributed by Indian scientists from 1991 to 2000. The domestic and international collaboration patterns have been studied and reported that USA, Canada and Germany were the collaborative countries. Among the Asian countries, India collaborated mostly with Japan followed by Singapore and found that India had the potential of carrying out computer science research of international standard.

A study was carried out by Neeraj Verma, et al (2009) [11] to analyze the authorship pattern, subjectwise analysis of articles, citation pattern and length of articles of contributions published in the Journal of Planter's Chronicle. The study revealed that above 80% of articles contributed by single and double authors combined.

Zainab, Anyi and Anuar (2009) [12] analyzed the contributions to Malaysian Journal of Computer Science and found n=2.85 which shows that the Lokta's Law was applicable to the field of computer science.

Chen and Guan (2011) [13] measured the quality of research of literature published in the field of Nano biopharmaceuticals.

#### 4. Objectives of This Study

The present study has been undertaken with the objective of analyzing the following aspects:

#### 4.1. Analysis of Articles

- To make an analysis of articles published in Electronic Journal of Knowledge Management from 2007 to 2011
- To identify the number of contributions published during the period of study
- To determine the year wise distribution of articles
- To study the authorship pattern
- To find out the ranking of leading contributors
- To identify geographical distribution of articles
- To study the length of articles
- To study the subject coverage of articles

# 4.2. Analysis of Citations

- To discover the number of cited documents and the average number of references per article
- To identify the number and forms of documents cited
- To identify the year-wise distribution of cited journals
- To study the age of cited journals

#### 5. Methodology

As stated earlier the EJKM is used as source journal for data collection. The data pertaining to Electronic Journal of Knowledge Management regarding 197 articles made from volume 5 in 2007 to volume 9 in 2011. Then they are tabulated and analyzed for making observations.

#### 6. Analysis and Discussions

All the details such as authors, title, and year of publication, pagination and institutional affiliation etc. of all articles published form 2007 to 2011 were recorded for the following analysis.

#### 6.1. Analysis

The analysis was done in two parts: a) Analysis of articles b) Analysis of citations.

#### 6.1.1. Analysis of Articles

All the details such as authors, title, and year of publication, pagination, and institutional affiliation etc. of all articles published form 2007 to 2011 were recorded for the following analysis.

#### 6.1.1.1. Distribution of Contribution

| Year  | Vol. No. | No. of Issues | No. of Contribution | Percentage |
|-------|----------|---------------|---------------------|------------|
| 2007  | 5        | 4             | 55                  | 27.92      |
| 2008  | 6        | 2             | 16                  | 8.12       |
| 2009  | 7        | 5             | 61                  | 30.96      |
| 2010  | 8        | 3             | 33                  | 16.75      |
| 2011  | 9        | 4             | 32                  | 16.25      |
| Total |          | 18            | 197                 | 100.00     |

Table 1: Year Wise Distribution of Articles

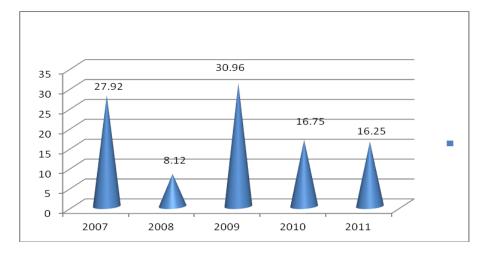


Figure 1: Year Wise Distribution of Articles

The Electronic Journal of Knowledge Management regularly publishes in international journals of repute. The journal published 197 research papers during the period of study i.e. from 2007 to 2011. The journal on an average has published 40 research papers per year. The Table 1 showed that the

maximum number of articles were published in the year 2007 and 2009 (60) and minimum in the year 2008 (16) articles [Figure 1]. The number of research publications of Electronic Journal of Knowledge Management for the period 2007-2011 has been given year wise in Table 1.

| Month     | Volume Number |    |    |    |    |     |  |
|-----------|---------------|----|----|----|----|-----|--|
|           | 5             | 6  | 7  | 8  | 9  | _   |  |
| January   | -             | -  | 18 | -  | -  | 18  |  |
| March     | 14            | -  | 11 | 7  | 8  | 40  |  |
| April     | 12            | 6  | 8  | 10 | 8  | 44  |  |
| September | 9             | -  | 13 | 16 | 10 | 48  |  |
| December  | 20            | 10 | 11 | -  | 6  | 47  |  |
| Total     | 55            | 16 | 61 | 33 | 32 | 197 |  |

The details of the no. of papers during 2007-2011 are tabulated in Table 2. It is found that the highest no. of articles in volume No.7 and 5. The second highest position is occupied by Volume No. 8. It is followed by volume 32. The lowest number of total articles in volume 16. The contribution of articles in volume 7 and 5 were more in January and December respectively.

# 6.1.1.2. Subject wise Distribution of Articles

#### Table 3: Subject Wise Distribution of Articles

| Subject  | No. of Articles | Percentage |
|--|-----------------|------------|
| Knowledge Management                           | 26              | 13.20      |
| Implementation of knowledge management         | 32              |            |
| initiatives to exchange ideas                  |                 | 16.24      |
| Frameworks for conceptualizing Knowledge       | 7               |            |
| Management                                     |                 | 3.55       |
| Knowledge creation and sharing mechanisms      | 19              | 9.64       |
| Knowledge asset valuation models               | 13              | 6.60       |
| Impact on organizational learning              | 15              | 7.61       |
| Impact on business strategy                    | 5               | 2.54       |
| Architectures for Knowledge Management systems | 21              | 10.66      |
| Resourcing Knowledge Management                | 18              | 9.14       |
| Evaluation of Knowledge Management             | 13              | 6.60       |
| Knowledge Management and the Web and e-        | 28              |            |
| Business                                       |                 | 14.21      |
| Total  | 197             | 100.00     |

The Table 3 above showed that majority of the contributions appeared under implementation knowledge management initiatives 32 (16.24%) followed by Web and e-Business 28 (14.21%), Knowledge Management 26 (13.20%), Architectures for Knowledge Management systems 21 (10.66%), Knowledge creation and sharing mechanisms 19 (9.64%), Organizational learning 15 (7.61%) and Knowledge asset and evaluation of knowledge management 13 (6.60%).

#### 6.1.1.3. Authorship Pattern

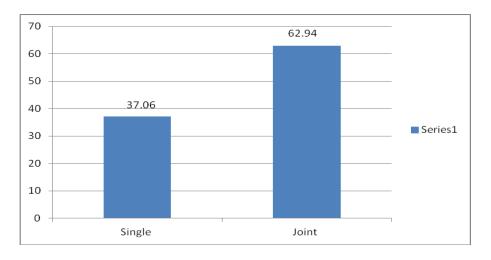
| Year       | Number of Authors |       |       |      |          |     |
|------------|-------------------|-------|-------|------|----------|-----|
| _          | 1                 | 2     | 3     | 4    | 5 & More |     |
| 2007       | 22                | 25    | 7     | 1    | -        | 55  |
| 2008       | 4                 | 10    | 2     | -    | -        | 16  |
| 2009       | 20                | 26    | 8     | 5    | 2        | 61  |
| 2010       | 14                | 13    | 4     | 1    | 1        | 33  |
| 2011       | 13                | 11    | 5     | 2    | 1        | 32  |
| Total      | 73                | 85    | 26    | 9    | 4        | 197 |
| Percentage | 37.06             | 43.15 | 13.20 | 4.57 | 2.03     | 100 |

## Table 4: Authorship Pattern

Table 4 reveals the authorship pattern of the articles published during the period of study. Maximum numbers of articles were contributed by two authors85 (43.15%). This is followed by single author with 73(37.06%) articles, three authors were contributed 26 articles (13.20%) and four authors were contributed 9 articles (4.57%). The five and more authors were contributed 4 (2.03%) of the total articles.

#### Table 5: Year-Wise Authorship Pattern

| Authorship |      |      | Year |      |      | Total | Percentage |
|------------|------|------|------|------|------|-------|------------|
| -          | 2007 | 2008 | 2009 | 2010 | 2011 |       |            |
| Single     | 22   | 4    | 20   | 14   | 13   | 73    | 37.06      |
| Joint      | 33   | 12   | 41   | 19   | 19   | 124   | 62.94      |
| Total      | 55   | 16   | 61   | 33   | 32   | 197   | 100.00     |



#### Figure 2: Authorship Pattern

The above Table-5 showed that out of 197 articles joint authors contributed 124 (62.94%) articles while the rest 73 (37.06%) articles were contributed by single author [Figure 2].

# 6.1.1.4. Institution Wise Contribution

| Name of the Institution | No. of Articles | Percentage |
|-------------------------|-----------------|------------|
| Universities            | 75              | 38.07      |
| Colleges                | 33              | 16.75      |
| Research Institutions   | 47              | 23.86      |
| Govt. Departments       | 18              | 9.14       |
| Societies               | 24              | 12.18      |
| Total                   | 197             | 100.00     |

Table 6: Institution-Wise Contribution of Articles

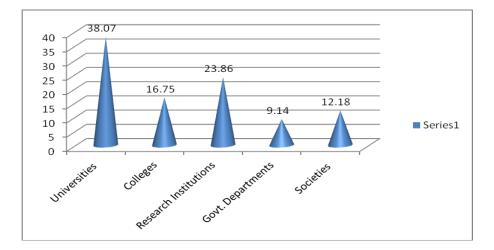


Figure 3: Institution-Wise Contribution of Articles

The highest contributions were from universities with 75 (38.07%). This is followed by research institutions with 47 (23.86%), Colleges 33 (16.75%) and government departments 18 (9.14%). The remaining 24 articles (12.18%) were contributed by societies [Figure 3].

# 6.1.1.5. Length of Articles

#### Table 7: Length of Articles

| Pages     | Year |      |      |      |      | Total | Percentage |
|-----------|------|------|------|------|------|-------|------------|
|           | 2007 | 2008 | 2009 | 2010 | 2011 |       |            |
| 1-4       | 7    | 2    | 6    | 5    | 2    | 22    | 11.17      |
| 5-8       | 18   | 7    | 26   | 17   | 14   | 82    | 41.62      |
| 9-12      | 13   | 4    | 17   | 7    | 10   | 51    | 25.89      |
| 13 & more | 17   | 3    | 12   | 4    | 6    | 42    | 21.32      |
| Total     | 55   | 16   | 61   | 33   | 32   | 197   | 100.00     |

Table 7 reveals that the majority of articles 82 (41.62%) have the length of 5-8 pages followed by 51 (25.89%) articles with 9-12 pages, 42 (21.32%) articles with 13 and more pages and the remaining 22 (11.17%) articles have the length of 1-4 pages.

#### 6.1.2. Citation Analysis

The references provided by the authors at the end of their articles are the basis of citation analysis. Citation traces a connection between two documents, one which cites and the other which is cited. Citation analysis is one of the popular methods applied to derive the following benefits.

#### 6.1.2.1. Year-Wise Distribution of Citations

| Year  | No. of Citations | Percentage |
|-------|------------------|------------|
| 2007  | 765              | 28.20      |
| 2008  | 207              | 7.63       |
| 2009  | 814              | 30.00      |
| 2010  | 492              | 18.13      |
| 2011  | 435              | 16.03      |
| Total | 2713             | 100.00     |

# Table 8: Year-Wise Distribution of Citations

The above Table 8 showed that maximum number of citations 814 (30.00%) produced in 2009 followed by 765 (28.20%) citations in 2007, 492(18.13%) citations in 2010, 435 (16.03%) citations in 2011 and 207 (7.63%) in the year 2008.

#### 6.1.2.2. Forms of Documents Cited

#### Table 9: Forms of Document Cited

| Forms of Document              | Total No. of Citation | Percentage |
|--------------------------------|-----------------------|------------|
| Journals                       | 1092                  | 40.25      |
| Seminar/Conference Proceedings | 635                   | 23.41      |
| Books                          | 312                   | 11.50      |
| Websites                       | 162                   | 5.97       |
| Research Reports               | 138                   | 5.09       |
| Special Publications           | 105                   | 3.87       |
| Reference Books                | 87                    | 3.21       |
| Dissertations                  | 78                    | 2.88       |
| Abstracts                      | 56                    | 2.06       |
| Annual Reports                 | 48                    | 1.77       |
| Total                          | 2713                  | 100.00     |

The Table 9 above showed that majority of the contributors preferred journals as the source of information which occupied the top position with the highest number of citations 1092 (40.25%) of the total 2713 citations followed by seminar / conference proceedings with 635 (23.41%) citations, books with 312 (11.50%) citations, websites with 162 (5.97%) citations, research reports with 138 (5.09%) citations, special publications with 105 (3.87%) citations, reference books with 87 (3.21%) citations, dissertations with 78 (2.88%), abstracts with 56 (2.06%) citations and annual reports with 48 (1.77%). It is found that the researchers preferred journal articles more frequently for their research work, than any other types of communication channels.

| Authorship pattern | Total No. of Citation | Percentage |
|--------------------|-----------------------|------------|
| Single             | 829                   | 30.56      |
| Two                | 1142                  | 42.09      |
| Three              | 441                   | 16.26      |
| Four               | 256                   | 9.44       |
| Five and more      | 45                    | 1.66       |
| Total              | 2713                  | 100.00     |

#### Table 10: Authorship Pattern of Cited References

On analyzing the extent of collaborations, it was found that only 42.09% citations (1142) involved two authors followed by 30.56% citations (829) involved single author, 16.26% citations (441) involved three authors, 9.44% citations (256) involved four authors and 1.66% citations (45) involved five and more authors.

# 6.1.2.3. Age of Journals Cited

#### Table 11: Age of Journals cited

| Year        | No. of Citations | Percentage |  |
|-------------|------------------|------------|--|
| Before 1971 | 92               | 3.39       |  |
| 1971-1980   | 217              | 8.00       |  |
| 1981-1990   | 725              | 26.72      |  |
| 1991-2000   | 745              | 27.46      |  |
| 2001-2010   | 934              | 34.43      |  |
| Total       | 2713             | 100.00     |  |

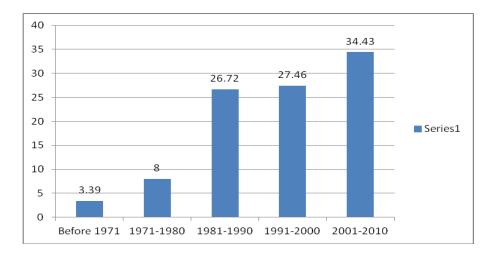


Figure 4: Age of Journals Cited

The above Table 11 revealed that maximum number of citations accounted in the period 2001-2010, 934 (34.43%) followed by 27.46% in 1991-2000, 26.72% in the year 1981-1990 [Figure 4].

# 7. Conclusion

Bibliometric techniques are being used for a variety of purposes like determination of various scientific indicators, evaluation of scientific output, selection of journals for libraries and even forecasting the potential of a particular field. The maximum numbers of contributions are two authors with 85 (43.15%). The present study reveals that the highest numbers of articles have appeared in the area of

implementations of knowledge management initiatives. Similarly most of the contributions are from foreign with 93.40%, while Indian contribution is very less. The study revealed that the highest contributions were from universities with 75 (38.07%). Majority of the authors preferred journals as the source of information providing the highest number of citations (40.25%). The study revealed that maximum number of citations accounted in the period 2001-2010, 934 (34.43%).

#### References

- Pritchard A. Statistical Bibliography or Bibliometrics? Journal of Documentation. 1969. 25 (4) 348-349.
- [2] Schneider G. 1934: Theory and History of Bibliography. Columbia University Press, New York, 306.
- [3] Murray D. 1917: *Bibliography: Its Scope and Method*. James Maclehose and Sons, Glasgow, Scotland; 2, 7, 8, 13.
- [4] Baburajan A. IEEE Transactions on Computers: A Bibliometric Analysis. IASLIC Bulletin. 1988. 33 (2/3) 53-59.
- [5] Zhuk E.S., et al. A Scientometric Analysis of Literature on 'Plasmotechnical Synthesis and Modification of Polymer Membranes. Nauchno- Tekhnicheskaya Informatsiya. 1990.
- [6] Ullah M.F. Contribution of Indian Hydrologists in Journal of Hydrology: A Scientometric Analysis. Annals of Library Science and Documentation. 1994. 41 (3) 95-101.
- [7] Ramesh Babu B., et al., 1998: International Library Review (1987-1991): A Bibliometric Study. Library Science and Its Facets, ESS Publications, New Delhi, India.
- [8] Narendra Kumar A.M., 1999: *ILA Bulletin (1986-1996): An Analytical Study*. Readings in Library and Information Science (S.P. Sood Festschrift). Raj Publishing House, Jaipur, India. 237-256.
- [9] Wagner-Dobler R. Continuity and Discontinuity of Collaboration Behaviour since 1800: From A Bibliometric Point of View. Scientometrics. 2001. 52 (3) 503-517.
- [10] Das A.K. Collaboration Pattern in Computer Science Research in India: A Study. ILA Bulletin. 2001. 37 (4) 143-150.
- [11] Neeraj Verma. *Analysis of Contributions in 'Annals of Library and Information Science'*. Annals of Library and Information Studies. 2007. 54; 106-111.
- [12] Zainab A.N. A Single Journal Study: Malaysian Journal of Computer Science. Malaysian Journal of Computer Science. 2009. 22 (1) 1-18.
- [13] Chen K. A Bibliometric Investigation of Research Performance in Emerging Nanobiopharmaceuticals, Journal of Informetrics. 2011. 5 (2) 233–247.



**Research Article** 

# Open Access Library and Information Science Journals on DOAJ: An Analytical Study

Ramdas Lihitkar<sup>1</sup> and Shalini R. Lihitkar<sup>2</sup>

<sup>1</sup>Government Institute of Science, Nagpur, Maharashtra, India <sup>2</sup>Department of DLISC, R.T.M. Nagpur University, Nagpur, Maharashtra, India

Correspondence should be addressed to Ramdas Lihitkar, rlihitkar1975@gmail.com

Publication Date: 29 November 2013

Article Link: http://scientific.cloud-journals.com/index.php/IJALIS/article/view/Sci-119



Copyright © 2013 Ramdas Lihitkar and Shalini R. Lihitkar. This is an open access article distributed under the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

**Abstract** The study of 100 open access journals in Library and Information Science is represented in the article. All these open access journals were accessed through DOAJ site and analyzed based on various parameters like Country, Languages, Subject Headings, Keywords, their accessibility and availability of Archives of online journals in LIS.

Keywords Online Journals; Open Access; E-Journals; LIS; DOAJ

#### 1. Introduction

Now days the proliferation of open access online journals are in vogue which are very valuable source of information and also add very valuable supplement to scientific knowledge. Open access journals can be accessible free of cost. We can download the articles and use for academic purpose without any charge. DOAJ provides the platform for accessing the open access journals.

#### A. Open Access Journals

The concept of Open access is related to free access to read, download, copy, distribute, print, search, or link to the full texts of these articles [1]. Open access journals are scholarly journals that are available online to the reader "without financial, legal, or technical barriers. Open access journals are called gold road to open access [3].

#### **B. DOAJ (Directory of Open Access Journals)**

Directory of Open Access Journals is a service that provides access to quality controlled Open Access Journals. The Directory aims to be comprehensive and cover all open access scientific and scholarly journals that use an appropriate quality control system, and it will not be limited to particular languages or subject areas. Directory of Open Access Journals is hosted, maintained and partly funded by Lund University Libraries Head Office [7]. DOAJ is receiving funding from:

- Open Society Institute http://www.osi.hu/infoprogram/
- SPARC http://www.arl.org/sparc/
- SPARC Europe http://www.sparceurope.org/
- BIBSAM http://www.kb.se/bibsam/
- Axiell http://www.axiell.se/

# 2. Objectives of the Paper

- To enumerate the open access Journals on LIS on DOAJ.
- To know the year wise growth of open access LIS Journals.
- To trace the country wise distribution of open access journals of LIS on DOAJ.
- To find out the Language wise distribution of open access LIS journals on DOAJ.
- To know the accessibility of Archives of open access LIS journals on DOAJ.
- To know the usefulness and applicability of LIS Journals to other disciplines.

# 3. Research Methodology

DOAJ (Directory of Open Access Journals) website (http://www.doaj.org) is browsed for the present study. Open Access LIS Journals were searched out and 100 Journals were found on DOAJ till January 2012. Total 100 LIS open access Journals were analyzed based on Countrywide, Languages, Subject Headings, Subject Keywords and accessibility of Archives to Open Access Journals of LIS.

# 4. Limitation of the Study

The study is limited to LIS open access journals which are listed on Directory of Open Access Journal (DOAJ). For the present project work DOAJ data is accessible till 20/1/2012. But now till June 2012, more 26 journals have been added which is not included for the present study.

| DOAJ Directory of Open Access Journal     | ls - Mozilla Firefox   |  |  | - 6 🛛      |
|---|--|--|--|------------|
| Ele Edit Уен Higtory Bookmarks Yook Н     | lab.   |  |  |            |
| DDOAJ Directory of Open Access Journals + |  |  |  |            |
| ♦ ⇒ D vvvvv dost.org                      |  | 습 - C 🛃 - 600  | je 🔎 🎓   | Feedback * |
| DOA                                       | DIRECTORY OF<br>OPEN ACCESS<br>JOURNALS                      |  | 2009   | ć          |
|   | Free, full text, qua   | ality controlled scientific and scholarly journals, covering all | subjects and many languages  |            |
| Search                                    | Journals   |  | NEWS   |            |
| Suggest a journal                         |  |  | 15/9 2011: 7000 journals and the<br>DOAJ site in Turkish                                       |            |
| About                                     | Search journals  | ]  | 27/6 2011: Article about OA<br>publishing  |            |
| Support DOA3!                             |  |  | 9/6 2011: DOAJ site now also in<br>French  |            |
| Statistics<br>Contact                     | Articles<br>More than one word in a field will be treated as | phraze.  | 18/4 2011: DOAJ listed as one of<br>20 Useful Specialty Search Engines<br>for College Students |            |
| 🖸 Journals added last 7 days              | or ○ not   | All Fields M   | 28/3 2011: DOAJ is launching a new user interface!   |            |
| 🖸 Journals added last 30 days             |  | All Fields 💌   | News Archive   |            |
| Open Access info                          | Search articles  | ]  | DOAJ AS OF TODAY   |            |
| For publishers                            |  |  | 7097 journals  |            |
|   |  |  | 3268 journals searchable<br>at article level   |            |
|   |  |  | 639626 articles  |            |
| <   |  | a  |  | >          |
| 🐴 start 🛛 🕹 👁 🗉 🛛 🗟 Anno Anevre F         | Personal 🔞 New Microsoft Office 🧟 Luke File                  | waker 👌 DOAJ Directory of  | n ( <mark>()) 2 2</mark> 20  | 🔁 4145 PM  |

Figure 1: Snapshot of Homepage of DOAJ

#### 5. Reason for Selecting the Topic

There has been an incessant study on the growing trends of open access journals/archives in the field of LIS [4]. The trend has given new dimensions and understanding about open access journals in LIS and other fields. However, the present study aims to highlight aspects which are related to the sources of publication and their language. It is evident to understand as which are the countries who are publishing LIS journals with open accessibility [5].

Thus, to trace this trend, the popular open access database, i.e., DOAJ is selected. The studies many further encourage the researchers to understand the country-wise and language-wise distribution of LIS OAJs on other platforms/databases [11].

# 6. Hypotheses

- Most of LIS Journals are open access.
- All the archives' of journals are available and accessible since its inceptions.
- The Indian contribution to Open Access journals on LIS is very less in comparisons to other country.

# 6.1. Analysis and Interpretations

Total 100 Open Access LIS Journals were analyzed based on Countrywide, Languages, Subject Headings, Subject keywords and accessibility of Archives of online journal and presented in the form of tables.

| S.N. | Title of E-<br>Journals  | URL                                   | ISSN No /<br>EISSN No     | Publisher  | Language                                   | Subject<br>Headings  | Subject Keywords  |
|------|--|---------------------------------------|---------------------------|--|--|--|---|
| 1    | ACIMED   | http://scielo.sld.cu/scielo<br>.php?  | 10249435<br>/<br>15612880 | Centro Nacional de<br>Información de<br>Ciencias Médicas,<br>Cuba            | Spanish                                    | Medicine<br>(General)<br>Library and<br>Information<br>Science | health sciences   |
| 2    | AIDAinformazi<br>oni :<br>Trimestrale di<br>Scienze<br>dell'Informazi<br>one | http://www.aidainformaz<br>ioni.it/   | 11210095<br>/<br>15942201 | Associazione<br>Italiana per la<br>Documentazione<br>Avanzata, Italy         | Italian,<br>English,<br>French,<br>Spanish | Library and<br>Information<br>Science                          | information<br>sciences,<br>documentation,<br>knowledge<br>management,<br>special<br>librarianship,<br>archives |
| 3    | Anales de<br>Documentació<br>n   | http://revistas.um.es/an<br>alesdoc   | 15752437<br>/<br>16977904 | Universidad de<br>Murcia, Spain  | Spanish,<br>English,<br>French             | Library and<br>Information<br>Science                          | documentation,<br>archival science,<br>librarianship,<br>documental<br>restoration,<br>information literacy     |
| 4    | Annals of<br>Library &<br>Information<br>Studies                             | http://nopr.niscair<br>res.in/handle/ | 09725423<br>/<br>09752404 | INSDOC, NISCAIR,<br>India  | English                                    | Library and<br>Information<br>Science                          | documentation,<br>information<br>systems,<br>bibliometrics,<br>scientometrics                                   |
| 5    | Arabesques   | http://www.abes.fr/abes/              | 12690589                  | Agence<br>bibliographique de<br>l'enseignement<br>supérieur(ABES),<br>France | French                                     | Library and<br>Information<br>Science                          | electronic<br>publication, library<br>research,<br>documentation  |
| 6    | Ariadne  | http://www.ariadne.ac.u<br>k/         | 13613197<br>/<br>13613200 | UKOLN. University<br>of Bath , United<br>Kingdom                             | English                                    | Library and<br>Information<br>Science                          | library and information science   |
| 7    | Arquivística.n<br>et   | http://www.arquivistica.n<br>et/      | 18084826                  | Arquivística.net,<br>Brazil  | Portugues<br>e, English,<br>Spanish        | Library and<br>Information<br>Science                          | information science   |

# Table 1: List of Open Access Journals on LIS on DOAJ

International Journal of Advanced Library and Information Science

| 8  | B Sides   | http;//ir.uiowa.edu/bside<br>s/                              | 21556687 | University of Iowa,<br>United States                                    | English                                    | Library and<br>Information<br>Science                                     | library and<br>information<br>science,<br>librarianship, digital<br>libraries, Internet |
|----|---|--|----------|---|--|---|---|
| 9  | Bibliosphere  | http://www.bibliosphere.<br>eu/                              | 13118803 | NBU Library,<br>Bulgaria  | Bulgarian                                  | Library and<br>Information<br>Science                                     | Bulgarian libraries,<br>librarianship   |
| 10 | Bibliotime<br>Rivista<br>Elettronica<br>per le<br>Biblioteche   | http://www.spbo.unibo.it<br>/bibliotime/                     | 11283564 | Università di<br>Bologna, Italy   | Italian                                    | Library and<br>Information<br>Science                                     | librarianship   |
| 11 | BiD: Textos<br>Universitaris<br>de<br>Biblioteconom<br>ia i<br>Documentació   | http://www.ub.edu/bid/                                       | 15755886 | Universitat de<br>Barcelona, Spain                                      | Catalan,<br>Spanish,<br>English,<br>French | Library and<br>Information<br>Science                                     | library and<br>information science  |
| 12 | Bilgi Dünyası   | http://wwwunak.org.tr/bil<br>giDunyasi/index.html            | 13023217 | Üniversite ve<br>Araştırma<br>Kütüphanecileri<br>Derneği, Turkey        | Turkish,<br>English                        | Library and<br>Information<br>Science                                     | librarianship,<br>knowledge<br>management,<br>information<br>management                 |
| 13 | Boletín de la<br>Asociación<br>Andaluza de<br>Bibliotecarios  | http://www.aab.es/jooml<br>a/index.php?                      | 02136333 | Asociacion<br>Andaluza de<br>Bibliotecarios,<br>Spain                   | Spanish                                    | Library and<br>Information<br>Science                                     | information science   |
| 14 | The<br>Bonefolder :<br>an e-Journal<br>for the<br>Bookbinder<br>and Book<br>Artist  | http://www.philobiblon.c<br>om/bonefolder/                   | 15556565 | The Book Arts Web<br>- Peter D.<br>Verheyen, United<br>States           | English                                    | Visual Arts<br>Arts in general -<br>Library and<br>Information<br>Science | bookbinding, book<br>arts, decorative<br>techniques,<br>education                       |
| 15 | Brazilian<br>Journal of<br>Information<br>Science   | http://www2.marilia.une<br>sp.br/revistas/index.php/<br>bjis | 19811640 | Universidade<br>Estadual Paulista,<br>Brazil                            | English,<br>Portugues<br>e                 | Library and<br>Information<br>Science                                     | librarianship,<br>archival science ,<br>bibliometry                                     |
| 16 | Bulletin des<br>bibliothèques<br>de France -<br>publ. par Le<br>service des<br>bibliothèques,<br>(Ministère des<br>universités)<br>en collab.<br>avec La<br>direction du<br>livre,<br>(Ministère de<br>la culture et<br>de la<br>communicatio<br>n) | http://bbf.enssib.fr   | 00062006 | French School of<br>Librarianship and<br>Information<br>Science, France | French                                     | Library and<br>Information<br>Science                                     | library, information<br>science, publishing,<br>information literacy                    |

| 17 | Bulletin of the<br>American<br>Society for<br>Information<br>Science and<br>Technology   | http://www.asis.org/bulle<br>tin/index.htm/         | 19316550 | American Society<br>for Information<br>Science and<br>Technology, United<br>States      | English                                | Library and<br>Information<br>Science                          | library and<br>information<br>science,<br>technology          |
|----|--|---|----------|---|--|--|---|
| 18 | Bulletin of the<br>Medical<br>Library<br>Association<br>Continued by<br>Journal of the<br>Medical<br>Library<br>Association                  | http://ww.pubmedcentral<br>.nih.gov/tocrender.fcgi? | 00257338 | PubMed , United<br>States   | English                                | Medicine<br>(General)<br>Library and<br>Information<br>Science | health sciences,<br>librarianship                             |
| 19 | Chinese<br>Librarianship:<br>an<br>International<br>Electronic<br>Journal  | http://www.iclc.us/cliej/                           | 10894667 | Internet Chinese<br>Librarians Club,<br>United States                                   | English                                | Library and<br>Information<br>Science                          | library and information science                               |
| 20 | Ciência da<br>Informação   | http://www.scielo.br/scie<br>lo.php?                | 01001965 | Instituto Brasileiro<br>de Informacao em<br>Ciencia e<br>Tecnologia - IBICT ,<br>Brazil | Portugues<br>e,<br>Spanish,<br>English | Library and<br>Information<br>Science                          | information science   |
| 21 | Code4Lib<br>Journal  | http://journal.code4lib.or<br>g                     | 19405758 | Code4Lib , United<br>States   | English                                | Library and<br>Information<br>Science                          | library technology innovation                                 |
| 22 | Collaborative<br>Librarianship   | http://www.colloborativel<br>ibrarianship.org       | 19437528 | Regis University,<br>United States  | English                                | Library and<br>Information<br>Science                          | libraries,<br>librarianship,<br>collaboration,<br>cooperation |
| 23 | Communicatio<br>ns in<br>Information<br>Literacy   | http://www.comminfolit.o<br>rg                      | 19335954 | Communications in<br>Information<br>Literacy, United<br>States                          | English                                | Library and<br>Information<br>Science                          | information literacy research                                 |
| 24 | Coordinates:<br>Online<br>Journal of the<br>Map and<br>Geography<br>Round Table<br>of the<br>American<br>Library<br>Association.<br>Series A | http://www.sunysb.edu/li<br>bmap/coordinates.htm    | 15533247 | American Library<br>Association, United<br>States                                       | English                                | Library and<br>Information<br>Science<br>Geography             | maps, cartography,<br>libraries,<br>geography                 |
| 25 | Coordinates:<br>Online<br>Journal of the<br>Map and<br>Geography<br>Round Table<br>of the<br>American<br>Library<br>Association.             | http://www.sunysb.edu/li<br>bmap/coordinates.htm    | 15533255 | American Library<br>Association, United<br>States                                       | English                                | Library and<br>Information<br>Science<br>Geography             | maps, cartography,<br>libraries,<br>geography                 |

|    | Series B  |  |          |  |                                 |   | <u> </u>   |
|----|---|--|----------|--|---------------------------------|---|--|
| 26 | Cuadernos de<br>Documentació<br>n Multimedia  | http://revistas.ucm.es/po<br>rtal/modulos.php?                   | 15759733 | Universidad<br>Complutense<br>Spain,   | Spanish                         | Library and<br>Information<br>Science<br>Computer<br>Science        | digitalization,<br>multimedia,<br>semantic web,<br>digital archives,<br>new technologies,<br>documentation       |
| 27 | Cybermetrics<br>: International<br>Journal of<br>Scientometric<br>s, Informetrics<br>and<br>Bibliometrics | http://www.cindoc.csic.e<br>s/cybermetrics/cybermet<br>rics.html | 11375019 | Centro de<br>Informacion y<br>Documentacion<br>Cientifica, Spain                         | English                         | Library and<br>Information<br>Science                               | library and<br>information<br>science,<br>scientrometrics,<br>bibliometrics,<br>informetrics,<br>Internet        |
| 28 | Cybrarians<br>Journal   | http://www.cyberarians.i<br>nfo/journal                          | 16872215 | cybrarians, Cairo,<br>Egypt  | Arabic                          | Library and<br>Information<br>Science                               | librarianship,<br>information<br>science, archives,<br>libraries   |
| 29 | D-Lib<br>Magazine   | http://www.dlib.org  | 10829873 | Corporation for<br>National Research<br>Initiatives, United<br>States                    | English                         | Library and<br>Information<br>Science                               | library and information science  |
| 30 | Datagramazer<br>o   | http://www.dgz.org.br/   | 15173801 | IASI - Instituto de<br>Adaptação e<br>Inserção na<br>Sociedade da<br>Informação , Brazil | Portugues<br>e, Spanish         | Library and<br>Information<br>Science                               | information flow,<br>information<br>structure,<br>information society,<br>digital inclusion,<br>digital literacy |
| 31 | DIGITHUM  | http://www.uoc.edu/digit<br>hum/eng/index.html                   | 15752275 | Fundació per la<br>Universitat Oberta<br>de Catalunya<br>(FUOC), Spain                   | Catalan,<br>Spanish,<br>English | Library and<br>Information<br>Science<br>Social Sciences            | humanities, social<br>science, digital<br>culture, information<br>society, ICT                                   |
| 32 | E-JASL: The<br>Electronic<br>Journal of<br>Academic and<br>Special<br>Librarianship                       | http://southernlibrarians<br>hip.icaap.org                       | 17048532 | International<br>Consortium for the<br>Advancement of<br>Academic<br>Publication, Canada | English                         | Library and<br>Information<br>Science                               | library and<br>information<br>science, academic<br>librarianship   |
| 33 | EBIB Bulletin   | http://ebib.info/biuletyn/                                       | 15077187 | Polish Librarians<br>Association, Poland   | Polish                          | Library and<br>Information<br>Science                               | librarianship,<br>information, library<br>technologies   |
| 34 | Electronic<br>Journal of<br>Health<br>Informatics   | http://www.ejhi.net  | 14464381 | Central Queensland<br>University, Australia  | English                         | Medicine<br>(General)<br>Library and<br>Information<br>Science      | health informatics,<br>e-health,<br>information<br>technology, health<br>care                                    |
| 35 | Electronic<br>Journal of<br>Knowledge<br>Management   | http://www.ejkm.com/   | 14794411 | Academic<br>Conferences<br>International<br>Limited , United<br>Kingdom                  | English                         | Library and<br>Information<br>Science<br>Business and<br>Management | knowledge<br>management  |
| 36 | Encontros<br>Bibli: revista<br>eletrônica de<br>biblioteconomi<br>a e ciência da<br>informação            | http://www.encontros-<br>bibli.ufsc.br/                          | 15182924 | Universidade<br>Federal de Santa<br>Catarina, Brazil                                     | Portugues<br>e, Spanish         | Library and<br>Information<br>Science                               | library science,<br>information<br>science,<br>information<br>management   |

| 37 | Enl@ce<br>Revista<br>Venezolana<br>de<br>Información,<br>Tecnología y<br>Conocimiento         | http://dialnet.unirioja.es/<br>servlet/revista?                | 16907515                  | Universidad del<br>Zulia, Venezuela                               | Spanish                    | Library and<br>Information<br>Science                    | information<br>systems,<br>information<br>technology  |
|----|---|--|---------------------------|---|----------------------------|--|---|
| 38 | European<br>Journal of<br>ePractice   | http://www.epracticejour<br>nal.eu/                            | 1988625X                  | ePractice.eu, Spain   | English                    | Library and<br>Information<br>Science<br>Social Sciences | eGovernment,<br>eInclusion,<br>eHealth, good<br>practice exchange   |
| 39 | Evidence<br>Based Library<br>and<br>Information<br>Practice                                   | http://ejournal.lirary.ualb<br>erta.ca/index.php/EBLIP         | 1715720X                  | University of<br>Alberta, Canada                                  | English                    | Library and<br>Information<br>Science                    | evidence-based<br>librarianship,<br>evidence-based<br>practice  |
| 40 | GMS Medizin-<br>Bibliothek-<br>Information  | http://www.eqms.de/en/j<br>ournal/mbi/index.shtml              | 1865066X                  | German Medical<br>Science,<br>Düsseldorf,<br>Germany              | German,<br>English         | Library and<br>Information<br>Science                    | medical libraries,<br>librarianship,<br>information science   |
| 41 | Hipertext.net   | http://www.hipertext.net/<br>web/pag100.htm                    | 16955498                  | Universitat Pompeu<br>Fabra, Spain                                | English,<br>Spanish        | Library and<br>Information<br>Science                    | world wide web,<br>digital information,<br>search engines,<br>information<br>architecture   |
| 42 | Human IT:<br>Tidskrift för<br>Studier av IT<br>ur ett<br>Humanvetens<br>kapligt<br>Perspektiv | http://www.hb.se/bhs/ith<br>/info.htm                          | 14021501<br>/<br>1402150x | Högskolan i Borås,<br>Sweden                                      | Swedish,<br>English        | Library and<br>Information<br>Science                    | Internet,<br>computers,<br>information science  |
| 43 | Infodiversidad  | http://redalyc.uaemex.m<br>x/src/inicio/homRevRed.<br>jsp?     | 1514514X                  | Sociedad de<br>Investigaciones<br>Bibliotecológicas,<br>Argentina | Spanish,<br>Portugues<br>e | Library and<br>Information<br>Science                    | libraries, library<br>science,<br>information science   |
| 44 | Informação<br>&Informação   | http://www.uel.br/revista<br>s/informacao/                     | 14142139<br>/<br>19818920 | Universidade<br>Estadual de<br>Londrina (UEL),<br>Brazil          | Portugues<br>e, Spanish    | Library and<br>Information<br>Science                    | information<br>science,<br>information<br>management,<br>library science,<br>librarianship,<br>archival science                       |
| 45 | Informação &<br>Sociedade:<br>Estudos   | http://www.ies.ufpb.br   | 18094783                  | Universidade<br>Federal da Paraiba,<br>Brazil                     | Portugues<br>e             | Library and<br>Information<br>Science                    | information<br>Science; library<br>science;<br>information<br>technology  |
| 46 | Información,<br>Cultura y<br>Sociedad   | http://www.scielo.org.ar/<br>scielo.php/script-sci-<br>serial/ | 15148327<br>/<br>18511740 | Universidad de<br>Buenos Aires,<br>Argentina                      | Spanish,<br>Portugues<br>e | Library and<br>Information<br>Science                    | production of<br>information,<br>preservation of<br>information,<br>circulation of<br>information,<br>dissemination of<br>information |

| 47 | Informatica<br>Economica<br>Journal   | http://revistaie.ase.ro                      | 14531305<br>/<br>18428088 | Inforec Association,<br>Romania   | English,<br>Romanian | Computer<br>Science<br>Library and<br>Information<br>Science        | economic<br>informatics,<br>information society,<br>information<br>systems, IT   |
|----|---|--|---------------------------|---|----------------------|---|--|
| 48 | Information<br>Research: an<br>international<br>electronic<br>journal                         | http://informationr.net/ir/                  | 13681613                  | Professor Tom<br>Wilson, United<br>Kingdom                                | English              | Library and<br>Information<br>Science                               | library and information science  |
| 49 | Information<br>Technology<br>and<br>Disabilities  | http://people.rit.edu/easi<br>/itd.htm       | 10735127                  | E A S I: Equal<br>Access to Software<br>and Information,<br>United States | English              | Library and<br>Information<br>Science<br>Education                  | information<br>technology,<br>disability,<br>disabilities,<br>education  |
| 50 | Informing<br>Science The<br>International<br>Journal of an<br>Emerging<br>Transdisciplin<br>e | http://inform.hu/                            | 15479684<br>/<br>15214672 | Informing Science<br>Institute, United<br>States                          | English              | Media and<br>communication<br>Library and<br>Information<br>Science | library and<br>information<br>science,<br>journalism,<br>informing science   |
| 51 | Interdisciplina<br>ry Journal of<br>e-Learning<br>and Learning<br>Objects                     | http://ijklo.org/                            | 15522210<br>/<br>15522237 | Informing Science<br>Institute, United<br>States                          | English              | Library and<br>Information<br>Science                               | knowledge,<br>learning objects, e-<br>learning   |
| 52 | Interdisciplina<br>ry Journal of<br>Information,<br>Knowledge,<br>and<br>Management           | http://www.ijikm.org/                        | 15551229<br>/<br>15551237 | Informing Science<br>Institute, United<br>States                          | English              | Computer<br>Science<br>Library and<br>Information<br>Science        | information<br>technology,<br>information<br>management,<br>knowledge<br>management,<br>organizational<br>learning                                 |
| 53 | International<br>Journal of<br>Digital<br>Curation  | http://www.ijdc.net/                         | 17468256                  | The Digital Curation<br>Centre, United<br>Kingdom                         | English              | Library and<br>Information<br>Science                               | digital curation,<br>digital preservation,<br>digital access   |
| 54 | International<br>Journal of<br>Doctoral<br>Studies  | http://ijds.org/                             | 15568881<br>/<br>15568873 | Informing Science<br>Institute, United<br>States                          | English              | Library and<br>Information<br>Science<br>Computer<br>Science        | informing science,<br>information<br>systems,<br>information<br>technology,<br>information<br>science,<br>information<br>security, IT<br>education |
| 55 | International<br>Journal of<br>Legal<br>Information   | http://scholarship.law.co<br>rcell.edu/ijli/ | 07311265                  | International<br>Association of Law<br>Libraries, United<br>States        | English              | Law Library<br>and Information<br>Science                           | library and<br>information<br>science,<br>librarianship, law<br>libraries, legal<br>literature, legal<br>information<br>research                   |

| 56 | International<br>Review of<br>Information<br>Ethics  | http://www.i-r-i-e.net/                          | 16141687                  | International Center<br>for Information<br>Ethics, Germany            | English,<br>German,<br>Spanish,<br>Portugues<br>e, French | Philosophy<br>Library and<br>Information<br>Science            | cyberethics,<br>computer ethics,<br>library and<br>information science                                 |
|----|--|--|---------------------------|---|---|--|--|
| 57 | Issues in<br>Informing<br>Science and<br>Information<br>Technology   | http://iisit.org/                                | 15475840<br>/<br>15475867 | Informing Science<br>Institute, United<br>States                      | English   | Computer<br>Science<br>Library and<br>Information<br>Science   | informing science,<br>information<br>technology,<br>trandisciplinary                                   |
| 58 | Issues in<br>Science and<br>Technology<br>Librarianship :<br>a quarterly<br>publication of<br>the Science<br>and<br>Technology<br>Section,<br>Association of<br>College and<br>Research<br>Libraries | httpwww.istl.org/                                | 10921206                  | Association of<br>College and<br>Research Libraries,<br>United States | English   | Library and<br>Information<br>Science                          | library and<br>information science   |
| 59 | JLIS.it  | http://www.jlis.it                               | 20381026                  | University of Florence, Italy   | Italian,<br>English                                       | Library and<br>Information<br>Science                          | librarianship,<br>archival science,<br>bibliometry   |
| 60 | Journal of<br>Digital<br>Information   | http://journals.tdl.org/jod<br>i                 | 13687506                  | Texas Digital<br>Library, United<br>States                            | English   | Library and<br>Information<br>Science                          | library and information science  |
| 61 | Journal of<br>Educational<br>Media &<br>Library<br>Sciences  | http://joemls.tku.edu.tw                         | 1013090X                  | Tamkang University<br>Press, Taiwan                                   | Chinese,<br>English                                       | Library and<br>Information<br>Science<br>Computer<br>Science   | library science,<br>information<br>science,<br>information<br>technology,<br>publishing, book<br>trade |
| 62 | Journal of<br>Electronic<br>Publishing   | http://www.journalfelectr<br>onicpublishing.org/ | 10802711<br>/<br>10802711 | University of<br>Michigan Press,<br>United States                     | English   | Library and<br>Information<br>Science                          | library and<br>information<br>science, electronic<br>publishing  |
| 63 | Journal of<br>eLiteracy  | http://www.jelit.org/index<br>.html              | 17454360                  | University of<br>Glasgow, United<br>Kingdom                           | English   | Library and<br>Information<br>Science                          | e-literacy   |
| 64 | Journal of<br>Health<br>Informatics in<br>Developing<br>Countries  | http://www.jhidc.org/                            | 11784407                  | University of Otago,<br>New Zealand                                   | English   | Library and<br>Information<br>Science<br>Medicine<br>(General) | information<br>science, medicine,<br>health care   |
| 65 | Journal of<br>Information<br>and<br>Organizationa<br>I Sciences  | http://jios.foi.hr/index.ph<br>p/jios/index      | 18463312<br>/<br>18469418 | University of<br>Zagreb, Croatia                                      | English   | Library and<br>Information<br>Science                          | information<br>systems,<br>communication   |
| 66 | Journal of<br>Information<br>Architecture  | http://journalofia.org/                          | 19037260                  | Research &<br>Education Group in<br>IA (REG-iA),                      | English   | Computer<br>Science<br>Library and                             | information<br>architecture,<br>shared information   |

41

|    |  |  |                           | Denmark  |                     | Information<br>Science   | environments,<br>interdisciplinary<br>studies   |
|----|--|--|---------------------------|--|---------------------|--|---|
| 67 | Journal of<br>Information<br>Literacy  | http://ojs.lboro.ac.uk/ojs/<br>index.php/JIK/index     | 17505968                  | Chartered Institute<br>of Library and<br>Information<br>Professionals,<br>United Kingdom     | English             | Library and<br>Information<br>Science                          | information literacy  |
| 68 | Journal of<br>Information,<br>Information<br>Technology,<br>and<br>Organizations   | http://jiito.org/                                      | 15571319<br>/<br>15571327 | Informing Science<br>Institute, United<br>States   | English             | Library and<br>Information<br>Science<br>Computer<br>Science   | information<br>systems research   |
| 69 | Journal of<br>Library and<br>Information<br>Studies  | http://jlis.lis.ntu.edu.tw                             | 16067509                  | National Taiwan<br>University, Taiwan  | Chinese,<br>English | Library and<br>Information<br>Science                          | computer science,<br>information<br>science,<br>bibliography,<br>documentation,<br>archival studies                                     |
| 70 | Journal of<br>Library<br>Innovation:   | http://www.libraryinnova<br>tion.org/                  | 1947525X                  | Western New York<br>Library Resources<br>Council, United<br>States                           | English             | Library and<br>Information<br>Science                          | libraries, academic<br>libraries, public<br>libraries, special<br>libraries, creative<br>librarianship,<br>organizational<br>innovation |
| 71 | Journal of<br>Library<br>Science<br>Continued by<br>1998 Journal<br>of Library and<br>Information<br>Studies   | http://jlis.lis.ntu.edu.tw/in<br>dex.php?              | 10183817                  | National Taiwan<br>University, Taiwan  | Chinese,<br>English | Library and<br>Information<br>Science                          | computer science,<br>information<br>science,<br>bibliography,<br>documentation,<br>archival studies                                     |
| 72 | Journal of<br>Medical<br>Internet<br>Research  | http://www.jmir.org/                                   | 14388871                  | Gunther<br>Eysenbach,<br>Canada  | English             | Library and<br>Information<br>Science<br>Medicine<br>(General) | medicine, Internet  |
| 73 | Journal of<br>southern<br>academic and<br>special<br>librarianship<br>Continued by<br>2001 E-JASL:<br>The Electronic<br>Journal of<br>Academic and<br>Special<br>Librarianship | http://southernlibrarians<br>hip.icaap.org/index.html/ | 1525321X                  | International<br>Consortium for the<br>Advancement of<br>Academic<br>Publication ,<br>Canada | English             | Library and<br>Information<br>Science                          | library and<br>information science  |
| 74 | Journal of the<br>Association<br>for History<br>and  | http://mcel.pacificu.edu.j<br>ahc/                     | 19375905                  | American<br>Association for<br>History and<br>Computing , United                             | English             | History<br>Computer<br>Science<br>Library and                  | history, information science  |

42

|    | Computing   |   |          | States   |                        | Information<br>Science   |  |
|----|---|---|----------|--|------------------------|--|--|
| 75 | Journal of the<br>Canadian<br>Health<br>Libraries<br>Association  | http://pubservices.nrc-<br>cnrc.ca/rp-<br>ps/journalDetail.jsp? | 17086892 | National Research<br>Council of Canada ,<br>Canada                                 | English,<br>French     | Library and<br>Information<br>Science                          | health information<br>services, health<br>literacy, health<br>libraries, health<br>sciences librarians                     |
| 76 | Journal of the<br>European<br>Association<br>for Health<br>Information<br>and Libraries                         | http://www.eahil.net/jour<br>nal/                               | 18410715 | European<br>Association for<br>Health Information<br>and Libraries,<br>Netherlands | English                | Library and<br>Information<br>Science<br>Medicine<br>(General) | health information,<br>medical libraries   |
| 77 | Journal of the<br>Medical<br>Library<br>Association   | http://www.pubmedcentr<br>al.gov/tocrender.fcgi?                | 15365050 | Medical Library<br>Association, United<br>States                                   | English                | Library and<br>Information<br>Science<br>Medicine<br>(General) | health sciences,<br>librarianship  |
| 78 | The journal of<br>the Rutgers<br>University<br>Library.   | http://jrul.libraries.rutger<br>s.edu/index.php/jrul/inde<br>x  | 00360473 | Rutgers University,<br>United States   | English                | Library and<br>Information<br>Science                          | history of libraries,<br>history of books,<br>New Jersey history   |
| 79 | Knygotyra   | http://www.leidykla.eu/m<br>okslo-darbai/knygotyra              | 02042061 | Vilnius University<br>Press, Lithuania   | Lithuanian,<br>English | Library and<br>Information<br>Science                          | book science, book<br>culture, publishing,<br>archival studies,<br>library science   |
| 80 | Liber<br>Quarterly :<br>The Journal of<br>European<br>Research<br>Libraries                                     | http://liber.library.uu.nl/                                     | 14355205 | lgitur, Utrecht<br>Publishing &<br>Archiving Services,<br>Netherlands              | English                | Library and<br>Information<br>Science                          | European<br>Research Libraries,<br>European cultural<br>heritage, research<br>library networks,<br>information<br>services |
| 81 | Library &<br>Information<br>Research :<br>Research into<br>Practice for<br>Information &<br>Library<br>Services | http://www.lirg.org.uk/lir/<br>ojs/index.php/lir                | 17561086 | CILIP Library &<br>Information<br>Research Group,<br>United Kingdom                | English                | Library and<br>Information<br>Science                          | librarianship,<br>information<br>science, evidence-<br>based practice  |
| 82 | Library<br>Philosophy<br>and Practice   | http://www.webpages.ui<br>daho.edu/~mbolin/lpp.ht<br>m          | 15220222 | University of<br>Nebraska, Lincoln<br>libraries, United<br>States                  | English                | Library and<br>Information<br>Science                          | library and information science  |
| 83 | Library<br>Student<br>Journal   | http://www.lirarystudentj<br>ournal.org                         | 19316100 | University at<br>Buffalo, United<br>States   | English                | Library and<br>Information<br>Science                          | library, information science   |
| 84 | Libreas :<br>Library Ideas  | http://www.libreas.eu   | 18607950 | Institut für<br>Bibliothekswissensc<br>haft Berlin,<br>Germany                     | German                 | Library and<br>Information<br>Science                          | library science,<br>librarianship,<br>education  |
| 85 | Libres: Library<br>and<br>Information<br>Science<br>Research  | http://libres.curtin.edu.a<br>u/                                | 10586768 | Curtin University of<br>Technology,<br>Australia                                   | English                | Library and<br>Information<br>Science                          | library and information science  |

| 86 | Journal   |  |          |   |  |                                       |  |
|----|---|--|----------|---|--|---------------------------------------|--|
|    | Liinc em<br>Revista   | http://revista.ibict.br/liinc<br>/index.php/liinc  | 18083536 | Laboratório<br>Interdisciplinar em<br>Inofrmação e<br>Conhecimento<br>(LIINC), Brazil | Portugues<br>e,<br>Spanish,<br>English | Library and<br>Information<br>Science | information society,<br>knowledge society,<br>knowledge<br>production, public<br>policies                          |
| 87 | Medizin-<br>Bibliothek-<br>Information<br>Continued by<br>GMS Medizin-<br>Bibliothek-<br>Information  | http://www.agmb.de/mbi<br>/mbiauswahi.html         | 16169026 | Arbeitsgemeinschaf<br>t für Medizinisches<br>Bibliothekswesen,<br>Germany             | German                                 | Library and<br>Information<br>Science | library and information science  |
| 88 | MLA Forum   | http://www.mlaforum.org<br>/                       | 15394123 | Michigan Library<br>Association, United<br>States                                     | English                                | Library and<br>Information<br>Science | library education,<br>information science  |
| 89 | New<br>Knowledge<br>Environments  | http://journal.uvic.ca/ind<br>ex.php/INKE          | 19236328 | University of<br>Victoria, Canada   | English                                | Library and<br>Information<br>Science | digital humanities,<br>interface design,<br>user experience,<br>information literacy,<br>information<br>management |
| 90 | North<br>Carolina<br>Libraries  | http://www.nci.edu/index<br>.php/NCL               | 00292540 | North Carolina<br>Library Association,<br>United States                               | English                                | Library and<br>Information<br>Science | libraries,<br>librarianship, media<br>centers, academic<br>libraries   |
| 91 | Partnership :<br>the Canadian<br>Journal of<br>Library and<br>Information<br>Practice and<br>Research | http://journal.lib.uoguelp<br>h.ca/index.php/perj/ | 19119593 | The Partnership,<br>Canada  | English,<br>French                     | Library and<br>Information<br>Science | librarians,<br>information<br>professionals,<br>library workers,<br>library and<br>information studies             |
| 92 | PERSPECTIV<br>AS EM<br>CIÊNCIA DA<br>INFORMAÇÃ<br>O   | http://www.eci.ufmg.br/p<br>cionline/              | 14139936 | Universidade<br>Federal de Minas<br>Gerais, Brazil                                    | Portugues<br>e                         | Library and<br>Information<br>Science | information<br>science, library<br>science, archives   |
| 93 | PontodeAces<br>so   | http://www.pontodeacas<br>so.ici.ufba.br           | 19816766 | Universidade<br>Federal da Bahia  | Portugues<br>e                         | Library and<br>Information<br>Science | library and<br>information<br>science,<br>information<br>management,<br>archival science                           |
| 94 | ProInflow   | http://pro.inflow.cz                               | 18042406 | Masaryk University,<br>Czech Republic   | Czech,<br>Slovak                       | Library and<br>Information<br>Science | library and<br>information<br>science,<br>librarianship,<br>information<br>systems,<br>information<br>technology   |
| 95 | Pustaha   | http://repository.usu.ac.i<br>d/handle/            | 18581447 | University of<br>Sumatera Utara,<br>Indonesia   | Indonesian                             | Library and<br>Information<br>Science | library and<br>information<br>science, knowledge<br>management,<br>librarianship                                   |

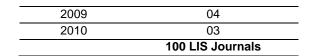
44

| 96  | Revista ACB  | http://www.acbsc.org.br/<br>revista/ojs/index.php         | 14140594                  | Associação<br>Catarinense de<br>Bibliotecários –<br>ACB, Brazil | Portugues<br>e                            | Library and<br>Information<br>Science | information<br>science,<br>librarianship,<br>documentation,<br>archives                                |
|-----|--|---|---------------------------|---|---|---------------------------------------|--|
| 97  | Revista Digital<br>de<br>Biblioteconom<br>ia e Ciência<br>da Informação      | http://server.o1.bc.unica<br>mp.br/seer/ojs/index.ph<br>p | 1678765X                  | Universidade<br>Estadual de<br>Campinas, Brazil                 | Portugues<br>e, English,<br>Spanish       | Library and<br>Information<br>Science | information<br>science, library<br>science,<br>communication<br>science                                |
| 98  | Revista<br>Española de<br>Documentació<br>n Científica                       | http://redc.revistas.csic.<br>es                          | 02100614<br>/1988462<br>1 | Consejo Superior<br>de Investigaciones<br>Científicas, Spain    | Spanish,<br>English                       | Library and<br>Information<br>Science | documentation,<br>knowledge<br>management,<br>bibliometrics,<br>scientometrics,<br>special libraries   |
| 99  | Revue<br>Électronique<br>Suisse de<br>Science de<br>l'Information -<br>RESSI | http://campus.hesge.ch/<br>ressi/                         | 16611802                  | Haute école de<br>gestion Genève,<br>Switzerland                | French,<br>German,<br>English,<br>Italian | Library and<br>Information<br>Science | information<br>science,<br>documentation,<br>archives,<br>Switzerland                                  |
| 100 | REVY :<br>Tidsskrift for<br>Danmarks<br>Forskningsbib<br>lioteksforenin<br>g | .http://www.dfrevy.dk/                                    | 19041969                  | Danmarks<br>Forskningsbibliotek<br>sforening, Denmark           | Danish,<br>English                        | Library and<br>Information<br>Science | libraries, research<br>libraries, university<br>libraries, special<br>libraries, national<br>libraries |

Table 1 enumerates the open access journals on LIS along with their URL so that any user can browse the e-journals directly by entering the URL in its address bar. In total hundreds open access journals have been find out on DOAJ.

| Year | No. of LIS Journals |
|------|---------------------|
| 1911 | 01                  |
| 1985 | 02                  |
| 1989 | 01                  |
| 1991 | 02                  |
| 1993 | 01                  |
| 1994 | 01                  |
| 1995 | 04                  |
| 1996 | 07                  |
| 1997 | 05                  |
| 1998 | 07                  |
| 1999 | 08                  |
| 2000 | 03                  |
| 2001 | 02                  |
| 2002 | 06                  |
| 2003 | 05                  |
| 2004 | 08                  |
| 2005 | 11                  |
| 2006 | 11                  |
| 2007 | 08                  |

Table 2: Year Wise Growth of Open Access LIS Journals



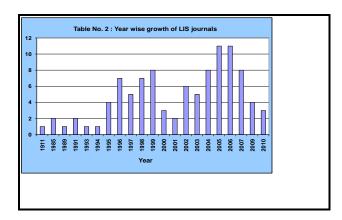


Figure 2: Year Wise Growth of LIS Journals

Table 2 and Figure 2 show the year wise growth of Open Access LIS Journals. In total 100 LIS journals which are available open access on DOAJ. Out of 100 Journals 4 journals starting from 1911, 1989, 1993 and 1994 also available open access from its inception. Maximum number of 11 journals has been started in the year 2005 and 2006 followed by 8 journals in the year 1999, 2004 and 2007.

| S.N. | Name of the Country | No. of OAJ | Rank |
|------|---------------------|------------|------|
| 1    | Argentina           | 02         | 7    |
| 2    | Australia           | 02         | 7    |
| 3    | Brazil              | 11         | 2    |
| 4    | Bulgaria            | 01         | 8    |
| 5    | Canada              | 07         | 4    |
| 6    | Croatia             | 01         | 8    |
| 7    | Cuba                | 01         | 8    |
| 8    | Czech Republic      | 01         | 8    |
| 9    | Denmark             | 02         | 7    |
| 10   | Egypt               | 01         | 8    |
| 11   | France              | 02         | 7    |
| 12   | Germany             | 04         | 5    |
| 13   | India               | 01         | 8    |
| 14   | Indonesia           | 01         | 8    |
| 15   | Italy               | 03         | 6    |
| 16   | Lithuania           | 01         | 8    |
| 17   | Netherlands         | 02         | 7    |
| 18   | New Zealand         | 01         | 8    |
| 19   | Poland              | 01         | 8    |
| 20   | Romania             | 01         | 8    |
| 21   | Spain               | 09         | 3    |
| 22   | Sweden              | 01         | 8    |
| 23   | Switzerland         | 01         | 8    |
| 24   | Taiwan              | 03         | 6    |
| 25   | Turkey              | 01         | 8    |
| 26   | United kingdom      | 07         | 4    |
| 27   | United States       | 30         | 1    |

Table 3: Country Wise Distribution of Open Access LIS Journals on DOAJ

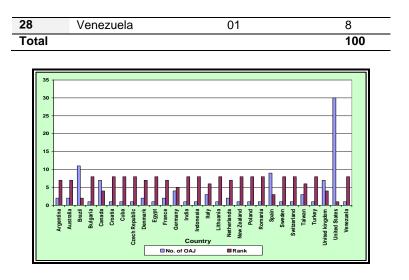
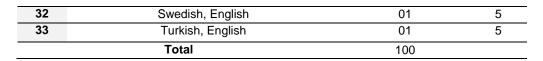


Figure 3: Analysis of Country Wise Distribution of Open Access LIS Journals

Table 3 depicts the country wise distribution of Open access LIS journals on DOAJ. United States was in 1<sup>st</sup> rank due to publication of 30 e-journals followed by UK from Germany followed by Brazil which has published 11 E-journals.

| S. N. | Languages                                    | No. of E-journals | Rank |
|-------|--|-------------------|------|
| 1     | Arabic                                       | 01                | 5    |
| 2     | Bulgarian                                    | 01                | 5    |
| 3     | Catalan, Spanish, English                    | 01                | 5    |
| 4     | Catalan, Spanish, English, French            | 01                | 5    |
| 5     | Chinese, English                             | 03                | 3    |
| 6     | Czech, Slovak                                | 01                | 5    |
| 7     | Danish, English                              | 01                | 5    |
| 8     | English                                      | 52                | 1    |
| 9     | English, French                              | 02                | 4    |
| 10    | English, German, Spanish, Portuguese, French | 01                | 5    |
| 11    | English, Portuguese                          | 01                | 5    |
| 12    | English, Romanian                            | 01                | 5    |
| 13    | English, Spanish                             | 01                | 5    |
| 14    | French                                       | 02                | 4    |
| 15    | French, German, English, Italian             | 01                | 5    |
| 16    | German                                       | 02                | 4    |
| 17    | German, English                              | 01                | 5    |
| 18    | Indonesian                                   | 01                | 5    |
| 19    | Italian                                      | 01                | 5    |
| 20    | Italian, English                             | 01                | 5    |
| 21    | Italian, English, French, Spanish            | 01                | 5    |
| 22    | Lithuanian, English                          | 01                | 5    |
| 23    | Polish                                       | 01                | 5    |
| 24    | Portuguese                                   | 04                | 2    |
| 25    | Portuguese, English, Spanish                 | 02                | 4    |
| 26    | Portuguese, Spanish                          | 03                | 3    |
| 27    | Portuguese, Spanish, English                 | 02                | 4    |
| 28    | Spanish                                      | 04                | 2    |
| 29    | Spanish, English                             | 01                | 5    |
| 30    | Spanish, English, French                     | 01                | 5    |
| 31    | Spanish, Portuguese                          | 02                | 4    |

Table 4: Analysis of Language Wise Distribution of Open Access LIS Journals on DOAJ



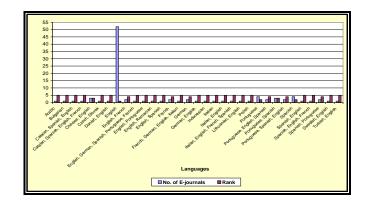


Figure 4: Analysis of Language Wise Distribution of Open Access LIS Journals

Table 4 gives the information about the publication language of the E-journals on LISc. English is the most common communication language to spread the knowledge in all over the world which is used by all 52 Open Access LIS Journals. Portuguese and Spanish language is on 2<sup>nd</sup> rank in table in which 4 journals published.

| S.N. | Subject Headings  | No. of OAJ |
|------|---|------------|
| 1    | Computer Science Library and Information Science            | 08         |
| 2    | Law Library and Information Science                         | 01         |
| 3    | Library and Information                                     | 74         |
| 4    | Library and Information Science Business and Management     | 01         |
| 5    | Library and Information Science Education                   | 01         |
| 6    | Library and Information Science Geography                   | 02         |
| 7    | Library and Information Science Social Sciences             | 02         |
| 8    | Media and communication Library and Information Science     | 01         |
| 9    | Medicine (General) Library and Information Science          | 07         |
| 10   | Philosophy Library and Information Science                  | 01         |
| 11   | Philosophy Library and Information Science                  | 01         |
| 12   | Visual Arts Arts in general Library and Information Science | 01         |

| Table 5: Analysis of Subject Headings o | f Open Access LIS Journals on DOAJ |
|---|------------------------------------|
|---|------------------------------------|

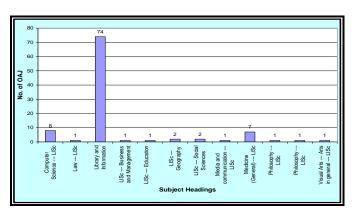


Figure 5: Analysis of Subject Headings of Open Access LIS Journals

\_\_\_\_

\_

\_\_\_\_

Table 5 and Figure 5 show the interdisciplinary scope of the online-journals of LISc. LIS journals can also be used in Medicine (General), Philosophy, Media & communication, Computer-Science, Law, Business Management, Education and Geography. Under out of 100 journals pure Library and Information Science subject heading is having 74 journals. 26 open access LIS journals are having interdisciplinary scope.

| S.       | Name of E                         | Starting |            |            |               |               |               | Volume        | No & I       | ssue No           |                   |                   |              |               |               |
|----------|-----------------------------------|----------|------------|------------|---------------|---------------|---------------|---------------|--------------|-------------------|-------------------|-------------------|--------------|---------------|---------------|
| 3.<br>N. | Journals                          | Year     | 2000       | 2001       | 2002          | 2003          | 2004          | 2005          | 2006         | 2007              | <u>.</u><br>2008  | 2009              | 2010         | 2011          | 2012          |
| 111      | Journals                          | i eai    | 2000       | 2001       | 2002          | 2003          | 2004          | 2005          | 2000         | <u>2007</u><br>V- | <u>2000</u><br>V- | <u>2009</u><br>V- | 2010         | 2011          | 2012          |
|          |                                   |          | V-8        | V-9        | V-10          | V-11          | V-12          | V-13          | V-14         | v-<br>15/16       | v-<br>17/18       | v-<br>19/20       | V-21         | V-22          | V-23          |
| 1        | ACIMED                            | 1993     | (1-3)      | (1-4)      | (1-6)         | (1-6)         | (1-6)         | (1-6)         | (1-6)        | (1-6)             | (1-6)             | (1-6)             | (1-4)        | (1-4)         | (1)           |
|          |                                   |          | (1-3)      | (1-4)      | (1-0)         | (1-0)         | (1-0)         | (1-0)         | (1-0)        | (1-6)             | (1-6)             | (1-6)             | (1-4)        | (1-4)         | (1)           |
|          | AIDAinformazioni :                |          |            |            |               |               |               |               |              | (1-0)             | (1-0)             | (1-0)             |              |               |               |
|          | Trimestrale di                    |          |            |            |               |               | V-1           | V-2           | V-3          | V-4               |                   |                   | V-4          | V-5           |               |
| 2        | Scienze                           | 2006     |            |            |               |               | (1-2)         | (3-4)         | (5)          | (6)               |                   |                   | (7)          | (8)           |               |
|          | dell'Informazione                 |          |            |            |               |               | (1-2)         | (3-4)         | (3)          | (0)               |                   |                   | (7)          | (0)           |               |
|          | Anales de                         |          |            | V-         | V-5           | V-6           | V-7           | V-8           | V-9          | V-10              | V-11              | V-12              | V-13         | V-14          | V-15          |
| 3        | Documentación                     | 1998     | V3(1)      | 4(1)       | (1)           | (1)           | (1)           | (1)           | (1)          | (1)               | (1-2)             | (1)               | (1)          | (1-2)         | (1-2)         |
|          | Annals of Library &               |          |            | 4(1)       | V-49          | V-50          | V-51          | V-52          | V-53         | V-54              | V-55              | V-56              | V-57         | V-58          | V-59          |
| 4        | Information Studies               | 2002     |            |            | (1-4)         | (1-4)         | (1-4)         | v-52<br>(1-4) | (1-4)        | (1-4)             | (1-4)             | (1-4)             | (1-4)        | (1-4)         | (1-4)         |
|          | Information Studies               |          |            | V-1-       | (1-4)<br>V-2- | V-3-          | (1-4)<br>V-4- | (1-4)         | (1-4)        | (1-4)             | (1-4)             | (1-4)             | (1-4)        | (1-4)<br>V-2- | (1-4)         |
| 5        | Arabaaguaa                        | 2000     | V-1        |            | v-2-<br>3 (1- | v-3-<br>4 (1- | v-4-<br>5 (1- | V-5-6         | V-6          | V-7               | V-8/9             | V-1               | V-1-2        |               |               |
| 5        | Arabesques                        | 2000     | (1)        | 2 (1-      | -             | -             |               | (1-2)         | (1)          | (1)               | (2)               | (1)               | (1-2)        | 3 (1-         |               |
|          |                                   |          |            | 2)         | 2)            | 2)            | 2)            | V-1           | V-2          | V-3               | V-4               | V-5               | V-6          | 2)<br>V-7     |               |
| 6        | Ariadne                           | 2005     |            |            |               |               |               | (1-4)         | v-z<br>(1-4) | v-3<br>(1-4)      | v-4<br>(1-4)      | v-5<br>(1-4)      | v-o<br>(1-4) | (1)           |               |
|          |                                   |          | V-3        | V-4        | V-5           | V-6           | V-7           | V-8           | (1-4)<br>V-9 | V-10              | V-11              | V-12              | V-13         | V-14          | V-15          |
| 7        | Arquivística.net                  | 2005     |            |            |               |               |               |               | -            | -                 |                   |                   |              | (1-2)         |               |
|          |                                   |          | (1)<br>V-3 | (1)<br>V-4 | (1)<br>V-5    | (1)<br>V-6    | (1)<br>V-7    | (1)<br>V-8    | (1)<br>V-9   | (1)<br>V-10       | (1-2)<br>V-11     | (1)<br>V-12       | (1)<br>V-13  | V-14          | (1-2)<br>V-15 |
| 8        | B Sides                           | 2008     |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
|          |                                   |          | (1)<br>V-3 | (1)<br>V-4 | (1)<br>V-5    | (1)<br>V-6    | (1)<br>V-7    | (1)<br>V-8    | (1)<br>V-9   | (1)<br>V-10       | (1-2)<br>V-11     | (1)<br>V-12       | (1)<br>V-13  | (1-2)<br>V-14 | (1-2)<br>V-15 |
| 9        | Bibliosphere                      | 1999     |            | • •        |               |               |               |               | -            |                   |                   |                   |              |               |               |
|          | Diblicting Divists                |          | (1)        | (1)        | (1)<br>V-1-   | (1)<br>V-2-   | (1)<br>V-3-   | (1)           | (1)          | (1)               | (1-2)             | (1)               | (1)          | (1-2)<br>V-1- | (1-2)<br>V-2- |
| 40       | Bibliotime Rivista                | 2000     |            | V-1        |               |               |               | V-4-5         | V-5-6        | V-6               | V-7               | V-8/9             | V-1          |               |               |
| 10       | Elettronica per le<br>Biblioteche | 2009     |            | (1)        | 2 (1-         | 3 (1-         | 4 (1-         | (1-2)         | (1-2)        | (1)               | (1)               | (2)               | (1)          | 2 (1-<br>2)   | 3 (1-         |
|          | BiD: Textos                       |          |            |            | 2)            | 2)            | 2)            |               |              |                   |                   |                   |              | 2)            | 2)            |
|          | Universitaris de                  |          |            | V-1        | V-1-          | V-2-          | V-3-          | V-4-5         | V-5-6        | V-6               | V-7               | V-8/9             | V-1          | V-1-          | V-2-          |
| 11       |                                   | 2000     |            |            | 2 (1-         | 3 (1-         | 4 (1-         | -             |              |                   |                   |                   |              | 2 (1-         | 3 (1-         |
|          | Biblioteconomia i<br>Documentació |          |            | (1)        | 2)            | 2)            | 2)            | (1-2)         | (1-2)        | (1)               | (1)               | (2)               | (1)          | 2)            | 2)            |
|          | Documentacio                      |          |            |            | V-3           | V-4           | V-5           | V-6           | V-7          | V-8               | V-9               | V-10              | V-11         |               |               |
| 12       | Bilgi Dünyası                     | 2000     |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
|          | Boletín de la                     |          |            |            | (1-2)         | (1-2)         | (1-2)         | (1-2)         | (1-2)        | (1-2)             | (1-2)             | (1-2)             | (1)          |               |               |
|          |                                   |          |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
| 13       | Asociación                        |          |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
|          | Andaluza de<br>Bibliotecarios     |          |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
|          | The Bonefolder : an               |          |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |
|          | e-Journal for the                 |          |            |            |               |               | V-1           | V-1-2         | V-2-3        | V-3-4             | V-4-5             | V-5-6             | V-6          | V-7           | V-            |
| 14       | Bookbinder and                    | 2004     |            |            |               |               | (1)           | (1-2)         | (1-2)        | (1-2)             | v-4-5<br>(1-2)    | (1-2)             |              |               | 8/9           |
|          | Book Artist                       |          |            |            |               |               | (1)           | (1-2)         | (1-2)        | (1-2)             | (1-2)             | (1-2)             | (1)          | (1)           | (2)           |
|          | Brazilian Journal of              |          |            |            |               |               |               |               |              | V-1               | V-2               | V-3               | V-4          |               |               |
| 15       | Information Science               | 2007     |            |            |               |               |               |               |              | (1-2)             | v-z<br>(1-2)      |                   | v-4<br>(1-2) |               |               |
|          | Bulletin des                      |          |            |            |               |               |               |               |              | (1-2)             | (1-2)             | (1)               | (1-2)        |               |               |
|          | bibliothèques de                  |          |            |            | V-1-          | V-2-          | V-3-          |               |              |                   |                   |                   |              |               |               |
| 16       | France - publ. par                | 1985     |            | V-1        | v-1-<br>2 (1- |               |               | V-4-5         | V-5-6        | V-6               | V-7               | V-8/9             | V-1          |               |               |
| 10       | Le service des                    | 1900     |            | (1)        | -             | 3 (1-<br>2)   | 4 (1-<br>2)   | (1-2)         | (1-2)        | (1)               | (1)               | (2)               | (1)          |               |               |
|          | bibliothèques,                    |          |            |            | 2)            | 2)            | 2)            |               |              |                   |                   |                   |              |               |               |
|          | bibliotrieques,                   |          |            |            |               |               |               |               |              |                   |                   |                   |              |               |               |

Table 6: Availability of Archives of E-Journals of Open Access LIS Journals

|    | (Ministère des<br>universités) en<br>collab. avec La<br>direction du livre,<br>(Ministère de la<br>culture et de la<br>communication)<br>Bulletin of the |      |                |                     |                     |                     |                     |                |                |                |               |                |                |                     |                     |
|----|--|------|----------------|---------------------|---------------------|---------------------|---------------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------------|---------------------|
| 17 | American Society<br>for Information<br>Science and<br>Technology   | 1995 | V-26<br>(2-6)  | V-27<br>(1-6)       | V-28<br>(1-6)       | V-29<br>(1-6)       | V-30<br>(1-6)       | V-31<br>(1-6)  | V-32<br>(1-6)  | V-33<br>(1-6)  | V-34<br>(1-6) | V-35<br>(1-6)  | V-36<br>(1-6)  | V-37<br>(1-6)       | V-38<br>(1-6)       |
| 18 | Bulletin of the<br>Medical Library<br>Association<br>Continued by<br>Journal of the<br>Medical Library<br>Association                                    | 1911 | V-88           | V-89                | V-90                | V-91                | V-92                | V-93           | V-94           | V-95           | V-96          | V-97           | V-98           | V-99                | V-<br>100           |
| 19 | Chinese<br>Librarianship: an<br>International<br>Electronic Journal  | 1996 | V-1<br>(1)     | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2) | V-6<br>(1)     | V-7<br>(1)     | V-8/9<br>(2)  | V-1<br>(1)     | V-1-2<br>(1-2) | V-2-<br>3 (1-<br>2) |                     |
| 20 | Ciência da<br>Informação   | 1997 | V-29<br>(1-3)  | V-30<br>(1-3)       | V-31<br>(1-3)       | V-32<br>(1-3)       |                     |                |                |                |               |                |                |                     |                     |
| 21 | Code4Lib Journal   | 2007 |                |                     |                     |                     |                     |                |                | V-1<br>(1)     | V-1<br>(1-4)  | V-1<br>(1-4)   | V-1<br>(1-4)   | V-1<br>(1-3)        | V-1<br>(1)          |
| 22 | Collaborative<br>Librarianship   | 2009 |                |                     |                     |                     |                     |                |                |                |               |                |                |                     |                     |
| 23 | Communications in<br>Information Literacy  | 2007 |                |                     | V-1<br>(1)          | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-4<br>(1-2) | V-4-5<br>(1-2) | V-5-6<br>(1-2) | V-6<br>(1)    | V-7<br>(1)     |                |                     |                     |
| 24 | Coordinates: Online<br>Journal of the Map<br>and Geography<br>Round Table of the<br>American Library<br>Association. Series<br>A                         | 1998 | V-1-2<br>(1-2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-<br>6 (1-<br>2) | V-6<br>(1)     | V-7<br>(1)     | V-8/9<br>(2)   | V-1<br>(1)    | V-1-2<br>(1-2) | V-2-3<br>(1-2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |
| 25 | Coordinates: Online<br>Journal of the Map<br>and Geography<br>Round Table of the<br>American Library<br>Association. Series<br>B                         | 1996 | V-1-2<br>(1-2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-<br>6 (1-<br>2) | V-6<br>(1)     | V-7<br>(1)     | V-8/9<br>(2)   | V-1<br>(1)    | V-1-2<br>(1-2) | V-2-3<br>(1-2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |
| 26 | Cuadernos de<br>Documentación<br>Multimedia  | 2000 | V-1-2<br>(1-2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-<br>6 (1-<br>2) | V-6<br>(1)     | V-7<br>(1)     | V-8/9<br>(2)   | V-1<br>(1)    | V-1-2<br>(1-2) | V-2-3<br>(1-2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |
| 27 | Cybermetrics:<br>International<br>Journal of<br>Scientometrics,<br>Informetrics and<br>Bibliometrics   | 1997 | V-4<br>(1)     | V-5<br>(1)          | V-6-<br>7 (1)       |                     | V-8<br>(1)          | V-9<br>(1)     | V-10<br>(1)    | V-11<br>(1)    | V-12<br>(1)   | V-13<br>(1)    | V-14<br>(1)    | V-15<br>(1)         | V-16<br>(1)         |
| 28 | Cybrarians Journal   | 2004 |                |                     |                     |                     | V-1<br>(1-3)        | V-1<br>(1-3)   | V-1<br>(1-3)   | V-1<br>(1-3)   | V-1<br>(1)    |                |                |                     |                     |
|    |  |      |                |                     |                     |                     |                     |                |                |                |               |                |                |                     | ·                   |

| 29 | D-Lib Magazine   | 1995 | V-6<br>(1)   | V-7<br>(1)          | V-8<br>(1)          | V-9<br>(1)          | V-10<br>(1)         | V-11<br>(1)        | V-12<br>(1)        | V-13<br>(1-2)      | V-14<br>(1-2)      | V-15<br>(1-2)      | V-16<br>(1-2)      | V-17<br>(1-2)      | V-18<br>(1-2) |
|----|--|------|--------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|
| 30 | Datagramazero  | 2000 |              |                     |                     |                     |                     |                    |                    |                    |                    |                    |                    |                    |               |
| 31 | DIGITHUM   | 1999 | V-1<br>(2)   | V-1<br>(3)          | V-1<br>(4)          | V-1<br>(5)          | V-1<br>(6)          | V-1<br>(7)         | V-1<br>(8)         | V-1<br>(9)         | V-1<br>(10)        | V-1<br>(11)        |                    |                    |               |
| 32 | E-JASL: The<br>Electronic Journal of<br>Academic and<br>Special<br>Librarianship           | 1999 | V-2<br>(1-2) | V-2<br>(3)          | V-3<br>(1-2)        | V-4<br>(1-3)        | V-5<br>(1-3)        | V-6<br>(1-2)       | V-7<br>(3)         | V-8<br>(3)         | V-9<br>(3)         | V-10<br>(1-3)      |                    |                    |               |
| 33 | EBIB Bulletin  | 1999 |              |                     |                     |                     |                     |                    |                    |                    |                    |                    |                    |                    |               |
| 34 | Electronic Journal of<br>Health Informatics  | 2006 |              |                     |                     |                     |                     |                    | V-1<br>(1)         | V-2<br>(1)         | V-3<br>(2)         | V-4<br>(1)         | V-5<br>(1-2)       | V-6<br>(1-4)       | V-7<br>(1)    |
| 35 | Electronic Journal of<br>Knowledge<br>Management   | 2003 |              |                     |                     | V-1<br>(1-2)        | V-2<br>(1-2)        | V-3<br>(1-2)       | V-4<br>(1-2)       | V-5<br>(1-4)       | V-6<br>(1-2)       | ∨-7<br>(1-5)       | V-8<br>(1-3)       | V-9<br>(1-4)       | V-10<br>(1-2) |
| 36 | Encontros Bibli:<br>revista eletrônica de<br>biblioteconomia e<br>ciência da<br>informação | 1996 | V-5<br>(1-2) | V-6<br>(1-2)        | V-7<br>(1-2)        | V-8<br>(1-2)        | V-9<br>(1-2)        | V-10<br>(1-2)      | V-11<br>(1-2)      | V-12<br>(1)        | V-13<br>(1-2)      | V-14<br>(1-2)      | V-15<br>(1-2)      | V-16<br>(1-2)      | V-17<br>(1)   |
| 37 | Enl@ce Revista<br>Venezolana de<br>Información,<br>Tecnología y<br>Conocimiento            | 2004 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |                    | V-3<br>(3)         | V-4<br>(1-3)       | V-5<br>(1-3)       | V-6<br>(1-3)       | V-7<br>(1-3)       | V-8<br>(1-2)       |               |
| 38 | European Journal of ePractice  | 2007 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |                    |                    |                    |                    |                    |                    |                    |               |
| 39 | Evidence Based<br>Library and<br>Information Practice                                      | 2006 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) |                    | V-1<br>(1-4)       | V-2<br>(1-4)       | V-3<br>(1-4)       | V-4<br>(1-3)       | V-5<br>(1-4)       | V-6<br>(1-4)       | V-7<br>(1)    |
| 40 | GMS Medizin-<br>Bibliothek-<br>Information   | 2006 |              |                     |                     |                     |                     | V-5<br>(1-3)       | V-6<br>(1-3)       | V-7<br>(1-3)       | V-8<br>(1-3)       | V-9<br>(1-3)       | V-10<br>(1-3)      | V-11<br>(1-3)      |               |
| 41 | Hipertext.net  | 2003 |              |                     |                     |                     |                     |                    |                    |                    |                    |                    |                    |                    |               |
| 42 | Human IT: Tidskrift<br>för Studier av IT ur<br>ett<br>Humanvetenskapligt<br>Perspektiv     | 1997 |              |                     | V-6<br>(3)          | V-6<br>(4)          | V-7<br>(1-2)        | V-7-8<br>(1-3)     | V-8-9<br>(2-3)     | V-9<br>(1)         |                    |                    |                    |                    |               |
| 43 | Infodiversidad   | 1998 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2)     | V-6<br>(1)         | V-7<br>(1)         | V-8/9<br>(2)       | V-1<br>(1)         | V-1-2<br>(1-2)     |                    |               |
| 44 | Informação<br>&Informação  | 1998 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2)     | V-6<br>(1)         | V-7<br>(1)         | V-8/9<br>(2)       | V-1<br>(1)         | V-1-2<br>(1-2)     |                    |               |
| 45 | Informação &<br>Sociedade:<br>Estudos  | 1995 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2)     | V-6<br>(1)         | V-7<br>(1)         | V-8/9<br>(2)       | V-1<br>(1)         | V-1-2<br>(1-2)     |                    |               |
| 46 | Información, Cultura<br>y Sociedad   | 2002 |              | S/V<br>(5)          | S/V<br>(6-7)        | S/V<br>(8-9)        | S/V<br>(10-<br>11)  | S/V<br>(12-<br>13) | S/V<br>(14-<br>15) | S/V<br>(16-<br>17) | S/V<br>(18-<br>19) | S/V<br>(20-<br>21) | S/V<br>(22-<br>23) | S/V<br>(24-<br>25) |               |
| 47 | Informatica<br>Economica Journal   | 1998 |              |                     |                     |                     |                     |                    |                    | V-11<br>(1-3)      | V-12<br>(1-4)      | V-13<br>(1-4)      | V-14<br>(1-4)      | V-15<br>(1-4)      | V-16<br>(1)   |
|    |  |      |              |                     |                     |                     |                     |                    |                    |                    |                    |                    |                    |                    |               |

| V-5 V-6<br>(26) (24)     | V-7<br>(26)  | V-8<br>(4)   |
|--------------------------|--|--|
| V-4 V-5<br>(5) (26)      | V-6<br>(17)  | V-7<br>(9)   |
| V-4 V-5<br>(1-2) (1-2)   | V-6<br>(1-2)   | V-7<br>(1-2)   |
| V-4 V-5<br>(8) (9)       | V-6<br>(9)   | V-7<br>(17)  |
| V-37 V-38<br>(1-3) (1-2) |  |  |
| V- V-<br>11/12 13/14     | V-16   | V-17   |
| V-6 V-7<br>(67) (39)     | V-8<br>(30)  | V-9<br>(31)  |
| V<br>(61-<br>62)         |  |  |
| v-1<br>(1-2)             | v-2<br>(1-2)   | v-3<br>(1)   |
| v-10 v-11<br>(1-6) (1)   |  | v-13<br>(1)  |
| V-16                     | (1-4)  |  |
| v-12 v-13                |  |  |
| (1) (1-3)                |  |  |
|                          | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

| 64 | Journal of Health<br>Informatics in<br>Developing<br>Countries  | 2007              |              |                     |                     |                     |                     |                |               | V-1<br>(1)    | V-2<br>(1-2)  | V-3<br>(1-2)  | V-4<br>(1-2)   | V-5<br>(1-2)        | V-6<br>(1)    |
|----|---|-------------------|--------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------------|---------------|
| 65 | Journal of<br>Information and<br>Organizational<br>Sciences   | 2006              |              |                     |                     |                     |                     |                | v-30<br>(1-2) | v-31<br>(1-2) | v-32<br>(1-2) | v-33<br>(1-2) | v-34<br>(1-2)  | v-35<br>(1-2)       |               |
| 66 | Journal of<br>Information<br>Architecture   | 2009              |              |                     |                     |                     |                     |                |               |               |               | v-1<br>(1-2)  | v-2<br>(1-2)   | v-3<br>(1-2)        |               |
| 67 | Journal of<br>Information Literacy  | 2007              |              |                     |                     |                     |                     |                |               | V-1<br>(1-3)  | V-2<br>(1-2)  | V-3<br>(1-2)  | V-4<br>(1-2)   | V-5<br>(1-2)        | V-6<br>(1)    |
| 68 | Journal of<br>Information,<br>Information<br>Technology, and<br>Organizations   | 2006              |              |                     |                     |                     |                     |                | V-1<br>(10)   | V-2<br>(10)   | V-3<br>(8)    | V-4<br>(9)    | V-5<br>(8)     | V-6<br>(3)          |               |
| 69 | Journal of Library<br>and Information<br>Studies  | 1999              | v-1<br>(15)  | v-1<br>(16)         | v-1<br>(17)         | v-1<br>(1-3)        | v-1/2<br>(1-4)      | v-2/3<br>(1-4) | v-4<br>(1-2)  | v-5<br>(1-2)  | v-6<br>(1-2)  | v-7<br>(1-2)  | v-8<br>(1-2)   | v-9<br>(1-2)        |               |
| 70 | Journal of Library<br>Innovation  | 2010              |              |                     |                     |                     |                     |                |               |               |               |               | V-1<br>(1-2)   | v-2<br>(1-2)        | v-3<br>(1)    |
| 71 | Journal of Library<br>Science Continued<br>by 1998 Journal of<br>Library and<br>Information Studies   | 1985End<br>year98 | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2) | V-6<br>(1)    | V-7<br>(1)    | V-8/9<br>(2)  | V-1<br>(1)    | V-1-2<br>(1-2) | V-2-<br>3 (1-<br>2) |               |
| 72 | Journal of Medical<br>Internet Research   | 1999              | V-2<br>(1-3) | V-3<br>(1-4)        | V-4<br>(1-3)        | V-5<br>(1-4)        | V-6<br>(1-4)        | V-7<br>(1-5)   | V-8<br>(1-4)  | V-9<br>(1-5)  | V-10<br>(1-5) | V-11<br>(1-4) | V-12<br>(1-4)  | V-13<br>(1-4)       | V-14<br>(1-3) |
| 73 | Journal of southern<br>academic and<br>special librarianship<br>Continued by 2001<br>E-JASL: The<br>Electronic Journal of<br>Academic and<br>Special<br>Librarianship | 1999              | v-2<br>(1-2) | V-2<br>(3)          | V-3<br>(1-3)        | V-4<br>(1-3)        | V-5<br>(1-3)        | V-6<br>(1-3)   | V-7<br>(1-3)  | V-8<br>(1-3)  | V-9<br>(1-3)  | V-10<br>(1)   |                |                     |               |
| 74 | Journal of the<br>Association for<br>History and<br>Computing   | 1998              | V-3<br>(1-3) | V-4<br>(1-3)        | V-5<br>(1-3)        | V-6<br>(1-2)        | V-7<br>(1-3)        | V-8<br>(1-2)   | V-9<br>(1-2)  | V-10<br>(1-3) | V-11<br>(1-2) | V-12<br>(1)   | V-13<br>(1)    |                     |               |
| 75 | Journal of the<br>Canadian Health<br>Libraries<br>Association   | 2006              |              |                     |                     |                     | V-25<br>(2-6)       | V-26<br>(1-6)  | V-27<br>(1-6) | V-28<br>(1-6) | V-29<br>(1-6) | V-30<br>(1-6) | V-31<br>(1-6)  | V-32<br>(1-3)       | v-33<br>(1)   |
| 76 | Journal of the<br>European<br>Association for<br>Health Information<br>and Libraries  | 2005              |              |                     |                     |                     |                     | V-1<br>(1-4)   | V-2<br>(1-2)  | V-3<br>(1-4)  | V-4<br>(1-4)  | V-5<br>(1-4)  | V-6<br>(1-4)   | V-7<br>(1-4)        | V-8<br>(1-2)  |
| 77 | Journal of the<br>Medical Library<br>Association  | 2002              | V-1<br>(1)   | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2) | V-6<br>(1)    | V-7<br>(1)    | V-8/9<br>(2)  | V-1<br>(1)    | V-1-2<br>(1-2) |                     |               |
| 78 | The journal of the<br>Rutgers University  | 2005              |              | V-59                |                     | -v-<br>60           |                     | v-61           | v-62          | v-63          | v-64          |               |                |                     |               |
|    |   |                   |              |                     |                     |                     |                     |                |               |               |               |               |                |                     |               |

|    | Library.   |      |               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |               |
|----|--|------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------|
|    | Library.   |      |               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |               |
| 79 | Knygotyra  | 2000 |               |                     |                     |                     |                     |                     | v-<br>47/46         |                     |                     |                     |                     |                      |               |
| 80 | Liber Quarterly :<br>The Journal of<br>European Research<br>Libraries  | 1999 | V-10<br>(1-4) | V-11<br>(1-4)       | V-12<br>(1-4)       | V-13<br>(1-4)       | V-14<br>(1-4)       | V-15<br>(1-4)       | V-16<br>(1-4)       | V-17<br>(1-4)       | v-18<br>(1-5)       | v-19<br>(2)         | v-20<br>(1-4)       | v-21<br>(1-4)        | v-22<br>(1-4) |
| 81 | Library &<br>Information<br>Research :<br>Research into<br>Practice for<br>Information &<br>Library Services   | 2007 |               | V-25<br>(1-2)       | V-26<br>(1-3)       | V-27<br>(1-3)       | V-28<br>(85-<br>87) | V-29<br>(88-<br>90) | V-30<br>(91-<br>93) | V-31<br>(97-<br>99) | V-32<br>(100-<br>2) | v-33<br>(103-<br>5) | v-34<br>(106-<br>8) | v-35<br>(109-<br>11) |               |
| 82 | Library Philosophy<br>and Practice   | 1998 | V-1<br>(1)    | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2)      | V-6<br>(1)          | V-7<br>(1)          | V-8/9<br>(2)        | V-1<br>(1)          | V-1-2<br>(1-2)      | V-2-<br>3 (1-<br>2)  |               |
| 83 | Library Student<br>Journal   | 2006 |               |                     |                     |                     |                     |                     | v-1<br>(1)          | v-1<br>(1)          |                     |                     |                     |                      |               |
| 84 | Libreas Library<br>Ideas   | 2005 |               |                     |                     |                     |                     | v-1<br>(1-3)        | V-2<br>(1-4)        | V-3<br>(1-4)        | V-4<br>(1-2)        | V-5<br>(1-2)        | V-6<br>(1-2)        | V-7<br>(1-2)         | V-<br>8(1)    |
| 85 | Libres: Library and<br>Information Science<br>Research Electronic<br>Journal                                   | 1996 | V-10<br>(1-2) | V-11<br>(1-2)       | V-12<br>(1-2)       | V-13<br>(1-2)       | V-14<br>(1-2)       | V-15<br>(1-2)       | V-16<br>(1-2)       | V-17<br>(1-2)       | v-18<br>(1-2)       | v-19<br>(1-2)       | v-20<br>(1-2)       | v-21<br>(1-2)        | v-22<br>(1)   |
| 86 | Liinc em Revista   | 2005 |               |                     |                     |                     |                     | v-1<br>(1-2)        | V-2<br>(1-2)        | V-3<br>(1-2)        | V-4<br>(1-2)        | V-5<br>(1-2)        | V-6<br>(1-2)        | V-7<br>(1-2)         | V-8<br>(1)    |
| 87 | Medizin-Bibliothek-<br>Information End<br>year: 2006<br>Continued by GMS<br>Medizin-Bibliothek-<br>Information | 2001 |               | v-1<br>(1-3)        | V-2<br>(1-3)        | V-3<br>(1-3)        | V-4<br>(1-3)        | V-5<br>(1-2)        |                     |                     |                     |                     |                     |                      |               |
| 88 | MLA Forum  | 2005 | V-1<br>(1)    | V-1-<br>2 (1-<br>2) | V-2-<br>3 (1-<br>2) | V-3-<br>4 (1-<br>2) | V-4-<br>5 (1-<br>2) | V-5-6<br>(1-2)      | V-6<br>(1)          | V-7<br>(1)          | V-8/9<br>(2)        | V-1<br>(1)          | V-1-2<br>(1-2)      | V-2-<br>3 (1-<br>2)  |               |
| 89 | New Knowledge<br>Environments  | 2009 |               |                     |                     |                     |                     |                     |                     |                     |                     | v-1<br>(1)          |                     |                      |               |
| 90 | North Carolina<br>Libraries  | 2002 |               | v-59<br>(1)         | v-60<br>(1-4)       | v-61<br>(1-4)       | v-62<br>(1-4)       | v-63<br>(1-3)       | v-64<br>(1-3)       | v-65<br>(1-3)       | v-66<br>(1-3)       | v-67<br>(1-2)       | v-68<br>(1-2)       | v-69<br>(1)          | v-70<br>(1)   |
| 91 | Partnership : the<br>Canadian Journal of<br>Library and<br>Information Practice<br>and Research                | 2006 |               |                     |                     |                     |                     |                     | v-1<br>(1)          | V-2<br>(1-2)        | V-3<br>(1-2)        | V-4<br>(1-2)        | V-5<br>(1-2)        | V-6<br>(1-2)         |               |
| 92 | PERSPECTIVAS<br>EM CIÊNCIA DA<br>INFORMAÇÃO  | 1996 |               |                     |                     |                     |                     |                     |                     | V-12<br>(2-3)       | V-13<br>(1-3)       | V-14<br>(1-3)       | V-15<br>(1-3)       | V-16<br>(1-4)        | V-17<br>(2)   |
| 93 | PontodeAcesso  | 2009 |               |                     |                     |                     |                     |                     |                     | v-1<br>(1-2)        | V-2<br>(1-3)        | V-3<br>(1-3)        | V-4<br>(1-3)        | V-5<br>(1-3)         | V-6<br>(1)    |
| 94 | ProInflow  | 2009 |               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |               |
| 95 | Pustaha  | 2005 |               |                     |                     |                     |                     | v-1<br>(1-2)        | v-2<br>(1-2)        |                     | v-4<br>(1-2)        |                     |                     |                      |               |
| 96 | Revista ACB  | 1996 | ∨-5<br>(5)    | V-6<br>(1)          | V-7<br>(1-2)        | V-8<br>(1)          | v-9<br>(1)          | V-10<br>(1-5)       | V-11<br>(1-2)       | V-12<br>(1-2)       | V-13<br>(1-2)       | V-14<br>(1-2)       | V-15<br>(1)         | V-16<br>(1)          | V-17<br>(1)   |
| 97 | Revista Digital de   | 2003 |               |                     |                     | V-1                 | V-2                 | V-3                 | V-4                 | V-5                 | V-5                 | V-6                 | V-7                 | V-8                  | v-9           |
|    |  |      |               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                      |               |

|     | Biblioteconomia e<br>Ciência da  |      |               |               |               | (1-2)         | (1)           | (1-2)         | (1-2)         | (1-2)         | (2)           | (2)           | (2)           | (2)           | (2)           |
|-----|--|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|     | Informação   |      |               |               |               |               |               |               |               |               |               |               |               |               |               |
| 98  | Revista Española<br>de Documentación<br>Científica                     | 1998 | v-23<br>(1-4) | v-24<br>(1-4) | V-25<br>(1-4) | V-26<br>(1-4) | V-27<br>(1-4) | V-28<br>(1-4) | V-29<br>(1-4) | V-30<br>(1-4) | V-31<br>(1-4) | V-32<br>(1-4) | v-33<br>(1-4) | v-34<br>(1-4) | V-35<br>(1-2) |
| 99  | Revue Électronique<br>Suisse de Science<br>de l'Information -<br>RESSI | 2005 |               |               |               |               |               |               |               |               |               |               |               |               |               |
| 100 | REVY : Tidsskrift for<br>Danmarks<br>Forskningsbi<br>blioteksforening  | 2004 |               |               |               |               | V-27<br>(1-8) | V-28<br>(1-8) | V-29<br>(1-8) | V-30<br>(1-8) | V-31<br>(1-8) | V-32<br>(1-6) | v-33<br>(1-4) | v-34<br>(1-4) | V-35<br>(1-2) |

Table 6 shows the archives of Open Access LIS journals available on DOAJ. Archives were finding only from the year 2000-2012 because it is not possible to find out the archives from year of starting the journals. But almost all the open access LIS journals are providing access to back issues since inception of the journals. Content facility is also available to link with archives on DOAJ. After accessing the individual e-journals website, archives were finding and it is observed that maximum number of e-journals archives is accessible.

# 7. Findings

- It is observed that in total hundred open access journals on Library and Information Science is listed on Directory of Open Access journals till date 20/01/2012. (Table 1)
- It has been observed that eleven open access journals on LIS have been started in the year 2005 and 2006 followed by 8 journals in the year 1999, 2004, and 2007. (Table 2)
- It has been observed that maximum number of 30 open access journals on LIS have been published by United States, hence secured 1<sup>st</sup> rank which published 11 E-journals.
- English is the most common communication language for scientific community which is used by 88 open access journals on LISc. Purely in English language journals are 52. Four open access journals on LIS are using Spanish, Catalah, French, German and Portuguese language also including English. (from Table 4)
- It has been observed that Library and Information Science Journals are also having interdisciplinary scope. LIS journals are also useful for Medicine, Philosophy, Media, and Communication, Computer Science, Law, Business Management, Education, Geography and Visual Arts. Out of 100 LIS journals 26 open access journals having interdisciplinary scope.
- It has been observed from Table 6 that each open access journals on LIS on DOAJ is giving keywords to search a particular journal.
- It has been observed that from Table 6 that most of the LIS open access journals are providing access to the archives starting from its inception.

### 8. Testing of Hypotheses

### a) Maximum LIS Journals are Open Access

The first hypothesis is proved valid because 100 LIS journals are available open accessibly on DOAJ.

# b) All the Archives' of Journals are Available and Accessible Since its Inceptions

This hypothesis is also proved valid because all the journals' archives are available and accessible since its inceptions of the journals.

# c) The Indian Contribution to Open Access Journals on LIS is Very Less in Comparisons to Other Countries

The last hypothesis is also valid because from India only one LIS journal is available on DOAJ in comparisons to other states. UK is on the first rank publishing 30 Open Access LIS Journals.

## 9. Conclusion

Now a day's open access scientific and scholarly journals provide greater visibility to authors because every research scholars are using open access journals [2]. Research scholars are citing in their research reports which increase the impact factor of the journals, usage and also the author credibility [6]. Research scholars, Scientists, Professionals should browse the DOAJ site and access the free online journals on their Subject areas. It is also suggested that Scientists and Research Scholars should publish their research work in online open access journals for wider visibility of their research work and for greater impact factor and citation index.

# References

- [1] Nitin Bacchaw. Open Access Initiatives in India: An Overview. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali (Eds.). Himalaya Publishing House. Mumbai. 2012. 35-48.
- [2] Prdnya A. and Bhosekar. Role of Library and Information Professionals in the Age of Open Access Movement. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali (Eds.). Himalaya Publishing House. Mumbai. 2012. 228-234.
- [3] Sanjeeva Meghana. Open Access Initiatives: A New Paradigm for Scholarly Communication. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali (Eds.). Himalaya Publishing House. Mumbai. 2012. 25-34.
- [4] Santosh C. Hulagabali and Rashmi S. Hulagabali. Open Access Journals in the field of Health Science: A case Study on DOAJ and Open J-Gate. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali. Himalaya Publishing House (Eds.). Mumbai. 2012. 129-137.

- [5] Santosh Hulagabali. Bibliometrics Study on LIS Journals Archived in DOAJ. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali (Eds.). Himalaya Publishing House. Mumbai. 2012. 107-116.
- [6] Sawant Sarika. Open Archive Developments in India. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali. Himalaya Publishing House (Eds.). Mumbai. 2012. 16-24.
- [7] Shripad V. Chandratre and Meghana S. Chandratre. Content Analysis of LIS Open Access Journals Archived in DOAJ. In National Conference on Open Access Movement in the Age of Innovation and ICT. Ancy Jose, Prtibha Gokhale and Santosh Hulagabali (Eds.). Himalaya Publishing House. Mumbai. 2012. 107-128.
- [8] Suber Peter. Open Access and Quality. DESIDOC Journal of Library and Information Technology. 2008. 28 (1) 49-56.
- [9] Bhaskar Mukharjee. Open Access Institutional Archives: A Quantitative Study (2006-2010). DESIDOC Journal of Library and Information Technology. 2011. 31 (4) 317-324.
- [10] Kalita Guitasree and Kalita Kishor. *Open Access Journals and its Repositories in the Web.* PLANNER. 2012. 263-268. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [11] Pandian R., Nityanand K., and Others. Open Access Journals: A Study. PLANNER. 2008. 162-168. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [12] Vishala K. and Bhandi M.K. Web Resources Services: usages of Open Access Journals by the Academiciations of Autonomous Colleges in Dakshina Kannada: A Survey. CALIBER. 2011. 559-569. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [13] Meitei L Shanta and Devi Purnima. Open Access to Information and Knowledge: An Initiative of Institutional Repositories and Digital Library in India. PLANNER. 2008. 155-161. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [14] Goswami T.D. Open Access Types of Journals Published. PLANNER. 2008. 181-187. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [15] Hirwade Mangala and Rajyalakshmi D. Open Access: India is moving Towards Third World Superpower. CALIBER. 2008. 71-82. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [16] Nagra Vaidya., Obaih B., and Thomas Abraham. Open Access Journals Publishing in India: A Study with OJS Software. CALIBER. 2009. 479-484. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [17] Bist Rajender Singh Mohanty and V. Patnaik. *Open Access Movement and Open Access Initiatives in India.* PLANNER. 2006. 236-246. Access from ir.inflibnet.ac.in on Dated: 27/06/2012.
- [18] http://scielo.sld.cu/scielo.php?

[19] http://www.aidainformazioni.it/

[20] http://revistas.um.es/analesdoc

[21] http://nopr.niscair res.in/handle/

[22] http://www.abes.fr/abes/

[23] http://www.ariadne.ac.uk/

[24] http://www.arquivistica.net/

[25] http;//ir.uiowa.edu/bsides/

[26] http://www.bibliosphere.eu/

[27] http://www.spbo.unibo.it/bibliotime/

[28] http://www.ub.edu/bid/

[29] http://wwwunak.org.tr/bilgiDunyasi/index.html

[30] http://www.aab.es/joomla/index.php?

[31] http://www.philobiblon.com/bonefolder/

[32] http://www2.marilia.unesp.br/revistas/index.php/bjis

[33] http://bbf.enssib.fr

[34] http://www.asis.org/bulletin/index.htm/

[35] http://ww.pubmedcentral.nih.gov/tocrender.fcgi?

[36] http://www.iclc.us/cliej/

[37] http://www.scielo.br/scielo.php?

[38] http://journal.code4lib.org

[39] http://www.colloborativelibrarianship.org

[40] http://www.comminfolit.org

[41] http://www.sunysb.edu/libmap/coordinates.htm

[42] http://www.sunysb.edu/libmap/coordinates.htm

[43] http://revistas.ucm.es/portal/modulos.php?

[44] http://www.cindoc.csic.es/cybermetrics/cybermetrics.html

[45] http://www.cyberarians.info/journal

[46] http://www.dlib.org

[47] http://www.dgz.org.br/

[48] http://www.uoc.edu/digithum/eng/index.html

[49] http://southernlibrarianship.icaap.org

[50] http://ebib.info/biuletyn/

[51] http://www.ejhi.net

[52] http://www.ejkm.com/

[53] http://www.encontros-bibli.ufsc.br/

[54] http://dialnet.unirioja.es/servlet/revista?

[55] http://www.epracticejournal.eu/

[56] http://ejournal.lirary.ualberta.ca/index.php/EBLIP

[57] http://www.eqms.de/en/journal/mbi/index.shtml

[58] http://www.hipertext.net/web/pag100.htm

[59] http://www.hb.se/bhs/ith/info.htm

[60] http://redalyc.uaemex.mx/src/inicio/homRevRed.jsp?

[61] http://www.uel.br/revistas/informacao/

[62] http://www.ies.ufpb.br

[63] http://www.scielo.org.ar/scielo.php/script-sci-serial/

[64] http://revistaie.ase.ro

[65] http://informationr.net/ir/

[66] http://people.rit.edu/easi/itd.htm

[67] http://inform.hu/

[68] http://ijklo.org/

[69] http://www.ijikm.org/

[70] http://www.ijdc.net/

[71] http://ijds.org/

[72] http://scholarship.law.corcell.edu/ijli/

[73] http://www.i-r-i-e.net/

[74] http://iisit.org/

[75] httpwww.istl.org/

[76] http://www.jlis.it

[77] http://journals.tdl.org/jodi

[78] http://joemls.tku.edu.tw

[79] http://www.journalfelectronicpublishing.org

[80] http://www.jelit.org/index.html

[81] http://www.jhidc.org/

[82] http://jios.foi.hr/index.php/jios/index

[83] http://journalofia.org/

[84] http://ojs.lboro.ac.uk/ojs/index.php/JIK/index

[85] http://jiito.org/

[86] http://jlis.lis.ntu.edu.tw

[87] http://www.libraryinnovation.org/

[88] http://jlis.lis.ntu.edu.tw/index.php?

[89] http://www.jmir.org/

[90] http://southernlibrarianship.icaap.org/index.html/

[91] http://mcel.pacificu.edu.jahc/

[92] http://pubservices.nrc-cnrc.ca/rp-ps/journalDetail.jsp?

[93] http://www.eahil.net/journal/

[94] http://www.pubmedcentral.gov/tocrender.fcgi?

[95] http://jrul.libraries.rutgers.edu/index.php/jrul/index

[96] http://www.leidykla.eu/mokslo-darbai/knygotyra

[97] http://liber.library.uu.nl/

[98] http://www.lirg.org.uk/lir/ojs/index.php/lir

[99] http://www.webpages.uidaho.edu/~mbolin/lpp.htm

- [100] http://www.lirarystudentjournal.org
- [101] http://www.libreas.eu
- [102] http://libres.curtin.edu.au/
- [103] http://revista.ibict.br/liinc/index.php/liinc
- [104] http://www.agmb.de/mbi/mbiauswahi.html
- [105] http://www.mlaforum.org/
- [106] http://journal.uvic.ca/index.php/INKE
- [107] http://www.nci.edu/index.php/NCL
- [108] http://journal.lib.uoguelph.ca/index.php/perj/
- [109] http://www.eci.ufmg.br/pcionline/
- [110] http://www.pontodeacasso.ici.ufba.br
- [111] http://pro.inflow.cz
- [112] http://repository.usu.ac.id/handle/
- [113] http://www.acbsc.org.br/revista/ojs/index.php
- [114] http://server.o1.bc.unicamp.br/seer/ojs/index.php
- [115] http://redc.revistas.csic.es
- [116] http://campus.hesge.ch/ressi/
- [117] http://www.dfrevy.dk/