

Publication Productivity of Digital Library by Using Science Direct during 2008-2017

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ABSTRACT

Digital Library has to play a vital role in modern society and Science Direct is a premier research platform, helping to find, analyze, and share information in the sciences, social sciences, arts, and humanities, etc. The present study discusses the "Digital Library" as reflected in Science Direct for the period from 2008 to 2017. This study investigates the Document Type, Documents Published by Year wise, highly preferred publications for publishing documents.

Keywords: Digital Library, Science Direct, Publication Productivity

I. INTRODUCTION

Digital Libraries are an evolving area of research; Digital libraries defined as electronic information collections containing large and diverse repositories of digital objects, which can be accessed by a large number of geographically distributed users. Such repositories would exist in locations physically near or remote from the users. Digital objects include text, images, maps, sound, videos, catalogues, scientific and government data sets as well as hyper textual multimedia compositions of such element. Therefore considering the importance of Digital Library the study is taken for research purpose.

II. CONCEPTUAL ANALYSIS:

2.1 Digital Library

According to William Arms an informal definition of a digital library is a managed collection of information, with associated services, where the information is stored in digital formats and accessible over a network.

2.2 Science Direct

Science Direct is a part of Elsevier. Headquartered in Amsterdam, The Netherlands, the company is the world's largest scientific, technical and medical information provider and publishes over 2,000 journals as well as books and secondary databases. There are currently more than 9.5 million articles/chapters, a content base that is growing at a rate of almost 0.5 million additions per year. Access to Science Direct 10 subjects (1. Biochemistry, Genetics & Mol. Biology, 2. Agriculture & Biological Science, 3. Chemistry 4. Computer Science, 5. Economics, 6. Immunology & Microbiology, 7. Mathematics, 8. Physics & Astronomy, 9. Social Sciences, 10. Psychology) collection (1000+journals titles) is provided to universities covered under the Consortium with back-files since 1995. The Consortium also provides the access to Elsevier journals to CFTIs on cross-sharing basis where the access fee is paid by the Consortium and subscription fees is paid by the Institutions.

III. PURPOSE OF STUDY

1. To Study the number of documents on Digital Library.
2. To Identify Publication year wise documents published in Science Direct on Digital Library.
3. To know highly preferred publications by the Scientists for writing research papers on Digital Library.

IV. SCOPE & LIMITATION OF STUDY

This Study is limited to search results on the term of 'Digital Library' in Science Direct database during 2008 to 2017. Document types and number of documents in which Digital Library term used.

V. METHODS AND MATERIALS

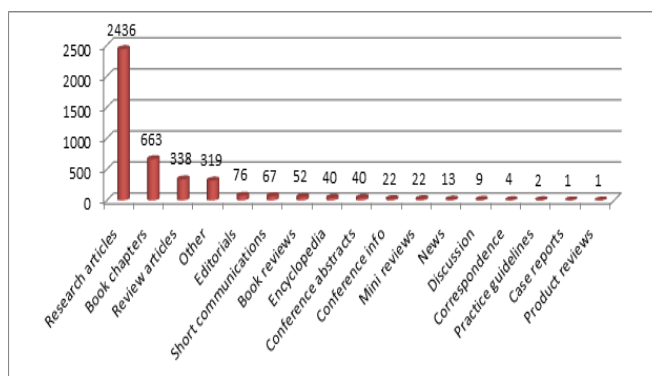
The growth of publications in the Digital Library research was derived from the Science Direct. During the period 2008 to 2017, 4105 records were found for the Title 'Digital Library'.

VI. REVIEW OF RELATED LITERATURE

Kale Vilas A., Deshmukh Rahul K. & Khiste Gajanan P. (2017) discusses the "Consortia" as reflected in Web of Science for the period from 1989–2016. This study investigates the highly productive authors, Document Type wise, Country wise, Language wise, Publication year wise, Research area wise, Source Title or Journal wise. Khiste G.P. (2018) Analysis of Publication Productivity of 'Total Quality Management' by J-Gate database. Khiste G.P. (2017) discusses the "Consortia" as reflected in Scopus for the period from 1989-2016. Khiste G.P., Deshmukh R.K.& Kale V.A. (2017) discusses the "Bibliometric" as reflected in J-Gate for the period from 2005 to 2016. Khiste G.P., Maske D.B.& Deshmukh R.K. (2018) discusses the "Knowledge Management" as reflected in Scopus for the period from 2007–2016. The result indicates that there were total 7996 documents on Knowledge Management during 2007

to 2016. At the international front, India's contribution to Knowledge Management is 298 documents during 2007 to 2016, which is rank on tenth. Khiste G.P.& Paithankar R.R.(2017) explained "Bibliometric" as reflected in SCOPUS for the period from 2008–2016. Khiste G.P.& Paithankar R.R.(2017) discusses the "Bibliometric" as reflected in Web of Science for the period from 1989–2016. Khiste G.P. & Paithankar R.R.(2017) discusses the "Bibliometric" as reflected in Science Direct for the period from 2005 to 2016. Khiste G.P., Maske Dnyaneshwar B. & Deshmukh R.K.(2018) analyzed Big Data Output in J-gate during 2013 to 2017. Khiste G.P., Awate Avinash & Deshmukh R.K. (2018) discussed Literature audit of 'digital library' by J-Gate database. Maske Dnyaneshwar B. & Khiste G.P. (2018) explained Mapping of Publication Productivity of 'Public Library'. Khiste G.P. & Amanullah Amir (2017) analyzed Knowledge Management output in Web of Science during 2007 to 2016. Maske Dnyaneshwar B, Deshmukh Rahul K & Khiste Gajanan P.(2018) analysed the items on "Information Literacy" as reflected in J-Gate for the period from 2007 to 2016. Khiste Gajanan, Awate Avinash P., Deshmukh, Rahul K. (2018) discussed mapping of the literature on 'Information Literacy' by Using Science Direct during 2008-2017. Khiste G.P., Maske Dnyaneshwar B. (2018) discussed mapping of literature on 'Six Sigma' by J-Gate Database. Khiste Gajanan P & Awate Avinash P (2018) analyzed mapping of the Literature on "Knowledge Management" By Using Science Direct during 2008-2017. Veer Chaitanya , Veer D. K. & Khiste Gajanan P.(2018) discusses the "Big Data" as reflected in Scopus for the period from 2012–2016 and investigates the highly productive authors, document types and h-index. The result indicates that there were total 9191 documents with 54129 citations on Big Data during 2012 to 2016. Veer D.K. & Khiste G.P.(2017) explained about the published documents and its citation from Agricultural Universities in Maharashtra during the period from 2004 to 2016 by Indian Citation Index (ICI) database. Veer D.K. &

Khiste Gajanan P. (2017) discusses the “Digital Library” as reflected in Scopus for the period from 1995–2016. Veer D.K. & Khiste Gajanan P. (2018) discusses the Information Literacy as reflected in Web of Science for the period from 1989–2016. Veer D.K., Khiste Gajanan P. & Deshmukh Rahul (2018) explained the term Information Literacy as reflected in SCOPUS during the period during 2007 to 2016. Veer D.K., Khiste Gajanan & Chaitanya Veer (2018) analyzed productivity of “Cloud Computing” documents during 2009– 2016 - A Study with Special Reference to SCOPUS.



Graph No. 1. Types of Documents available on Digital Library

VII. ANALYSIS BY DOCUMENT TYPE

Table No.1. Types of Documents available on Digital Library

Sr. No.	Types of Documents	Documents
1	Research articles	2436
2	Book chapters	663
3	Review articles	338
4	Other	319
5	Editorials	76
6	Short communications	67
7	Book reviews	52
8	Encyclopedia	40
9	Conference abstracts	40
10	Conference info	22
11	Mini reviews	22
12	News	13
13	Discussion	9
14	Correspondence	4
15	Practice guidelines	2
16	Case reports	1
17	Product reviews	1
	Total=	4105

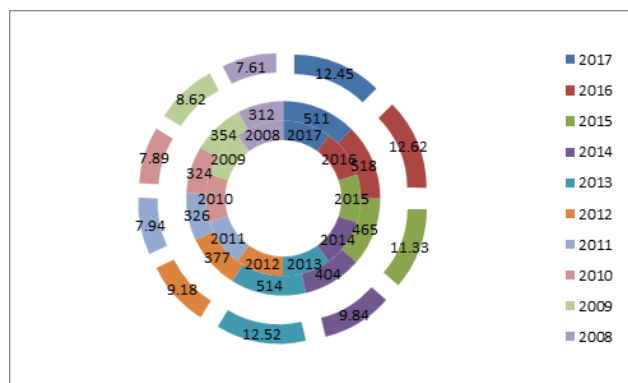
Table No. 1 & Graph No. 1 shows that the maximum number of documents published under the Research articles is 2436, whereas 663 documents under the Book chapters and less than 10 documents published in Correspondence, Practice guidelines, Product reviews, Case reports.

VIII. CHRONOLOGICAL ANALYSIS:

The author has analysed the data related to Digital Library based literature chronologically during 2008 to 2017 and presented in the Table No. 2.

Table No.2. Year wise documents published in Science Direct on Digital Library

Sr. No.	Publication Year	Documents	Percentage
1	2017	511	12.45
2	2016	518	12.62
3	2015	465	11.33
4	2014	404	9.84
5	2013	514	12.52
6	2012	377	9.18
7	2011	326	7.94
8	2010	324	7.89
9	2009	354	8.62
10	2008	312	7.61
	Total=	4105	100



Graph No. 2. Year wise documents published in Science Direct on Digital Library

Table No. 2 & Graph No. 2 shows that year-wise distribution of documents. The highest number of documents was published in the year 2016 i.e., 440 (12.37) and the next one with 433 (12.17 %) documents was published in the year 2013 & lowest number of documents 252 (7.09%) was published in the year 2008.

IX. PUBLICATION TITLE RANKING

The publication title is nothing but in which highest number of documents has been published on the term “Digital Library”. The related information is being presented in the Table No. 3.

Table No. 3. Top 10 Documents Publication Title on Digital Library

Sr. No.	Top 10 Documents Publication Title	Documents
1	Procedia Computer Science	227
2	The Journal of Academic Librarianship	194
3	Information and Software Technology	155
4	Procedia - Social and Behavioral Sciences	131
5	Journal of Systems and Software	93
6	Information Processing & Management	93
7	Library & Information Science Research	79
8	Expert Systems with Applications	78
9	Serials Review	67
10	International Journal of Information Management	48

Table 3 indicates that highest ranking Publication in which documents was published. As per Table No. 3 Procedia Computer Science ranks first with 227 Documents to its credit, followed by The Journal of Academic Librarianship ranking on second with 194 documents & International Journal of Information Management are on tenth ranks with 48 documents.

X. CONCLUSION

The data suggest that there was a significant research activity in the field of Digital Library during the study period. The present study indicates that there is an increase in the documents year by year.

Therefore, it is healthy pattern of progress in Digital Library field.

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