Publication Productivity of "Web 3.0" By Using Science Direct During 2008-2017

Gajanan P. Khiste[1], Yogesh P. Surwade[2]
[1] Information Scientist
[2]Jr. Library Assistant
[1, 2] Dr.Babasaheb Ambedkar Marathwada University, Aurangabad

Abstract- *The present study discusses the "Web 3.0" 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- Web 3.0, Science Direct, Publication Productivity

I. INTRODUCTION

The term Web 3.0 was first coined by John Markoff of the New York Times and he suggested Web 3.0 is the third generation of the web in 2006. it is the third stage of development of the World Wide Web. Web 3.0 is a web where the concept of website or webpage disappears, where data is not owned but instead shared, where services show different views for the same web. Those services have to be focused on content and personalization, and both will be reached by using vertical search. Web 3.0 is the next evolution of the internet. Some hypothesize that web 3.0 will combine the best bits of both web 1.0 and web 2.0 but will be a more user focused, personalized, intelligent, controlled or semantic web experience. Therefore considering the importance of Web 3.0 the study is taken for research purpose.

II. CONCEPTUAL ANALYSIS

2.1 Web 3.0

Web 3.0 refers to a supposed third generation of Internet based services that collectively comprise what might be called "the intelligent web, for instance, those using semantic web, micro formats, natural language search, data mining, machine learning, cloud computing and artificial technologies which put stress on machine-facilitated understanding of information with a view to providing a more productive and intuitive user experience. It is no wonder that Nova Spivack defines Web 3.0 as the third decade of the Web. Conrad Wolfram stated "Web 3.0 is where the computer is generating new information, rather humans.

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 Web 3.0.
2. To Identify Publication year wise documents published in Science Direct on Web 3.0.
3. To know highly preferred publications by the Scientists for writing research papers on Web 3.0.

IV. SCOPE & LIMITATION OF STUDY

This Study is limited to search results on the term of 'Web 3.0' in Science Direct database during 2008 to 2017. Document types and number of documents in which Web 3.0 term used.

V. METHODS AND MATERIALS

The growth of publications in the Web 3.0 research was derived from the Science Direct. During the period 2008 to 2017, a total of 368 records were found for the Title 'Web 3.0'.

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. & Khiste Gajanan P. (2018) Analysis the publication Productivity of Knowledge Management. 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 P. & Gawli D. Y. (2018) discussed Publication Productivity of Digital Library 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 & Deshmukh Rahul (2018) Mapping of the literature on 'Information Literacy' by Using Science Direct during 2008-2017. Khiste Gajanan P & Awate Avinash P (2018) analyzed mapping of the Literature on "Knowledge Management" By Using Science Direct during 2008-2017. Patil Hitendra J. & Surwade Yogesh P. (2018) explained evolution of Web 3.0 & Its Application to the Libraries Services. 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 P, Veer Chaitanya (2018) Productivity of "Cloud Computing" documents during 2009–2016-A Study with Special Reference to SCOPUS.

VII. ANALYSIS BY DOCUMENT TYPE

Table No.1 Types of Documents available on Web 3.0

Sr. No.	Types of Documents	Documents
1	Research articles	225
2	Book chapters	72
3	Other	30
4	Review articles	13
5	Book reviews	11
6	Editorials	8
7	Short communications	5
8	Encyclopedia	1
9	Conference info	1
10	Correspondence	1
11	Mini reviews	1
	Total=	**368**

Graph No.1 Types of Documents available on Web 3.0

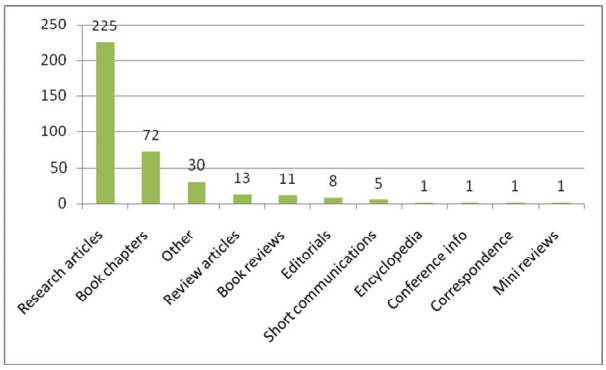

Table No.1 & Graph No.1 shows that the maximum number of documents published under the Research articles is 225, whereas 72 documents under the Book chapters and less than 10 documents published in Editorials , Short

communications, Encyclopedia ,Conference info, Correspondence, Mini reviews.

VIII. CHRONOLOGICAL ANALYSIS

The author has analyzed the data related to Web 3.0 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 Web 3.0

Sr. No.	Publication Year	Documents	Percentage
1	2017	36	9.78
2	2016	43	11.69
3	2015	53	14.4
4	2014	48	13.04
5	2013	42	11.41
6	2012	43	11.69
7	2011	37	10.06
8	2010	36	9.78
9	2009	14	3.8
10	2008	16	4.35
	Total=	**368**	**100**

Graph No.2 Year wise documents published in Science Direct on Web 3.0

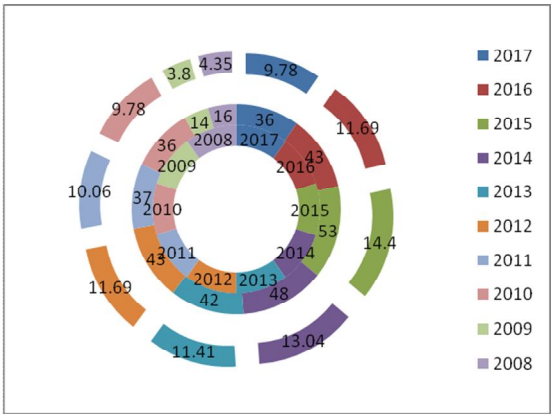

Table No. 2 shows that year-wise distribution of documents. The highest number of documents was published in the year 2015 i.e., 53 (14.4) and the next one with 48 (13.04%) documents was published in the year 2014 & lowest number of documents 14 (3.8%) was published in the year 2008.

IX. PUBLICATION TITLE RANKING

The publication title is nothing but in which highest number of documents has been published on the term "Web 3.0". The related information is being presented in the Table No. 3.

Table No. 3 Top 5 Documents Publication Title on Web 3.0

Sr. No.	Top 10 Documents Publication Title	Documents	Rank
1	Procedia - Social and Behavioral Sciences	21	1
2	Procedia Computer Science	20	2
3	Computers in Human Behavior	9	3
4	The Journal of Academic Librarianship	9	3
5	Telematics and Informatics	8	4
6	Technological Forecasting and Social Change	8	4
7	Government Information Quarterly	8	4
8	Expert Systems with Applications	7	5

Table No. 3 indicates that highest ranking Publication in which documents was published. As per Table No.3 Procedia - Social and Behavioral Sciences ranks first with 21 Documents to its credit, followed by Procedia Computer Science ranking on second with 20 documents & Expert Systems with Applications are on fifth ranks with 7 documents.

X. CONCLUSION

The data suggest that there was a significant research activity in the field of Web 3.0 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 Web 3.0 field.

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