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Directory of Open Access Journals in Civil Engineering: A Bibliometric Study

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ABSTRACT

The directory of open access journals (DOAJ) maintained by ISOA. It will provide access to scientific and scholarly content that meet s high quality standards of exerting peer review and it is free to all the time of publication based on the Budapest open access initiatives a right to read, download, copy, distribute, print, search or link to the full text of the articles. In this paper author made a effort to study the total 34 full-free E-journal. Journal are analyzed based on language, country, subject heading, keywords their accessibility of archives of online Journals in the civil engineering. Keyword: Online journal, Civil Engineering, open access, E-journal, DOAJ.

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INTRODUCTION

DOAJ is free access online E-Journals. The directory aims to comprehensive cover all open access scientific and scholarly E-journals that use a quality control system guarantee. This free online directory of open access journals maintained by infrastructure services for open access (as of Jan 2013) proviso maintained by Lund University, Sweden the initiatives of the compressive directory firstly discussion on 2002 by Nordic conference in scholarly communication in Lund (Copenhagen) this project was supported by the open society and proved the free access to all and it covers all Scientific and scholarly content. This content primarily for research, academic, government, commercial, non-profit sources for all acceptable and which will go through quality control guarantee which as editor, editorial board or Peer-review system. These journals should have ISSN number. And fee user registration online is acceptable. As on month January 2013 these directories contain 8536 E-Journal form on an average every day 4 Journals are adding to this source in 2012.

Objectives:

- To know the number of E-Journals offered by DOAJ with special reference to civil engineering
- To know country wise distribution of E-Journals
- To know the language wise distribution of E-Journals
- To find the accessibility of archives of E-Journals
- To know the useful of applicability of civil E-Journals to other dislines
- To know the year wise distribution of the E-Journals

RESEARCH METHODOLOGY

Directory open access journals website (<http://www.doaj.org>) browsed for civil engineering E-journals and search out total journals, 34 E-journals were found these E-Journals were analyzed on country wise, language wise and subject heading wise ,accessibility of archives of E-Journals.

Analysis and Interrupted

Total 34 E-journals are analyzed based on language wise, country wise, accessiablaly of archives the data of the E-Journals are presented in the table

Table : 1 List of free E-Journals on Civil Engineering

S.No	Title of the Journal	URL's	ISSN/EISSN	Publisher
1	Acta Technica Napocensis : Civil Engineering & Architecture	http://constructii.utcluj.ro/ActaCivilEng/	12215848	UT Press
2	Journal of the South African Institution of Civil Engineering	http://www.scielo.org.za/scielo.php?script=sci_serial&pid=1021-2019&lng=en&nrm=iso	10212019	South African Institution of Civil Engineering
3	Advances in Civil Engineering	http://www.hindawi.com/journals/ace/	16878086 16878094	Hindawi Publishing Corporation
4	ISRN Civil Engineering	http://www.hindawi.com/isrn/civil.engineering/	20905106 20905114	Hindawi Publishing Corporation
5	Archives of Civil Engineering	http://www.degruyter.com/view/j/ace	: 12302945	Versita
6	Slovak Journal of Civil Engineering	http://www.degruyter.com/view/j/sjce	12103896 13383973	Versita
7	Ganpat University Journal of Engineering & Technology	http://gnujet.ganpatuniversity.ac.in/index.php/GNUJET	22312382 22312390	U.V. Patel College of Engineering
8	Magazine of Civil Engineering	http://www.engstroy.spb.ru/	: 20714726 20710305	St-Petersburg State Polytechnical University
9	Civil Engineering Dimension	http://puslit2.petra.ac.id/ejournal/index.php/civ/index	14109530 1979570X	Petra Christian University
10	Structural Engineering / Earthquake Engineering	https://www.jstage.jst.go.jp/browse/jsceseee	2898063	Japan Society of Civil Engineers
11	The Journal of Engineering	http://digital-library.theiet.org/content/journals/joe	20513305	Institution of Engineering and Technology
12	International Journal of Civil and Structural Engineering	http://www.ipublishing.co.in/jcsindex.html	9764399	
13	Open Civil Engineering Journal	http://www.benthamscience.com/open/tociej/	18741495	Integrated Publishing Association
14	Civil Engineering and Technology	http://www.ivypub.org/cet/	23270497 23270500	Ivy Publisher
15	Scientific Herald of the Voronezh State University of Architecture and Civil Engineering	http://vestnikvgasu.wmsite.ru/	: 20750811	
16	Computational Methods in Civil Engineering	http://research.guilan.ac.ir/cmce/	: 22285687	Voronezh State University of Architecture and Civil Engineering
17	Revista Teoria e Prática na Engenharia Civil	http://www.editoradunas.com.br/revistatpec/	16773047	University of Guilan
18	Journal of Engineering	http://www.hindawi.com/journals/je/	23144912 23144904	Editora Dunas
19	Conference Papers in Engineering	http://www.nationalconsumercenter.com/Flow.aspx	23145838 23145366	Hindawi Publishing Corporation
20	Chinese Journal of Engineering	http://www.hindawi.com/journals/cje/	23148063	Hindawi Publishing Corporation

21	Research Journal of Applied Sciences, Engineering and Technology	http://www.maxwellsci.com/jp/j2p.php?jid=RJASET	20407459 20407467	Maxwell Science Publication
22	International Journal of Recent Technology and Engineering	http://www.ijrte.org/	22773878	IJRTE
23	International Journal of Innovative Technology and Exploring Engineering	http://www.ijitee.org/	: 22783075	
24	Facta Universitatis Series : Architecture and Civil Engineering	http://www.doiserbia.nb.rs/journal.aspx?issn=0354-4605&AspxAutoDetectCookieSupport=1	03544605	: IJITEE
25	Constructii : Journal of Civil Engineering Research	http://constructii.incerc2004.ro/en/index.htm	12212709 22470328	National R&D Institute URBAN-INCERC, INCERC Bucharest Branch, General Association of Engineers in Romania, AGIR
26	Journal of Civil Engineering and Urbanism	http://www.ojceu.ir/main/	22520430	Science Line Publication
27	Internet-Vestnik VolgGASU	http://www.vestnik.vgasu.ru/	19940351	Volgogradskij gosudarstvennyj arhitekturno-stroitel'nyj universitet / Volgograd State University of Architecture and Civil Engineering
28	Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie	http://www.anale-ing.uem.ro/	14537397	Eftimie Murgu University of Resita
29	Engevista	http://www.uff.br/engevista/seer/index.php/engevista/index	14157314	Universidade Federal Fluminense
30	Geonauka	http://geonauka.sgs.org.rs/	23348119 23348135	Serbian Union of Surveyors
31	Acta Polytechnica Hungarica	http://old.bmf.hu/journal/	17858860	Óbuda University
32	Ingeniería y Desarrollo	http://www.redalyc.org/revista.oa?id=852	01223461 21459371	Universidad del Norte
33	Revista de la Construcción	http://www7.uc.cl/construc_civil/site/edic/base/port/revistas.html	07177925 0718915X	Pontificia Universidad Católica de Chile
34	Vestnik Volgogradskogo Gosudarstvennogo Arhitekturno-Stroitel'nogo Universiteta. Seriya : Stroitelstvo i Arhitektura	http://www.vgasu.ru/science/journals/herald-volggasu/sia/?publishing/journals/vestnik-volgasu/sia/	18154360 20781954	Volgogradskij gosudarstvennyj arhitekturno-stroitel'nyj universitet

Table No: These tables contain free open access online journals on civil engineering along with URL so that any users can directly access.

Table : 2 Country wise distribution of E-Journals on civil engineering

S.No	Title of the Journal	Place of the Publication
1	Acta Technica Napocensis : Civil Engineering & Architecture	Romania
2	Journal of the South African Institution of Civil Engineering	South Africa
3	Advances in Civil Engineering	Egypt
4	ISRN Civil Engineering	Egypt
5	Archives of Civil Engineering	Poland
6	Slovak Journal of Civil Engineering	Slovakia
7	Ganpat University Journal of Engineering & Technology	India
8	Magazine of Civil Engineering	Russia
9	Civil Engineering Dimension	Indonesia
10	Structural Engineering / Earthquake Engineering	Japan
11	The Journal of Engineering	United Kingdom
12	International Journal of Civil and Structural Engineering	India
13	Open Civil Engineering Journal	United States
14	Civil Engineering and Technology	United States
15	Scientific Herald of the Voronezh State University of Architecture and Civil Engineering	Russia
16	Computational Methods in Civil Engineering	Iran
17	Revista Teoria e Prática na Engenharia Civil	Brazil
18	Journal of Engineering	Egypt
19	Conference Papers in Engineering	Egypt
20	Chinese Journal of Engineering	Egypt
21	Research Journal of Applied Sciences, Engineering and Technology	United Kingdom
22	International Journal of Recent Technology and Engineering	India
23	International Journal of Innovative Technology and Exploring Engineering	India
24	Facta Universitatis Series : Architecture and Civil Engineering	Serbia
25	Constructii : Journal of Civil Engineering Research	Romania
26	Journal of Civil Engineering and Urbanism	Iran
27	Internet-Vestnik VolgGASU	Russia
28	Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie	Romania
29	Engevista	Brazil
30	Geonauka	Serbia
31	Acta Polytechnica Hungarica	Hungary
32	Ingeniería y Desarrollo	Colombia
33	Revista de la Construcción	Chile
34	Vestnik Volgogradskogo Gosudarstvennogo Arhitekturno-Stroitel'nogo Universiteta. Seriya : Stroitelstvo i Arhitektura	Russia

Table : 2.1 Analysis of country wise distribution of E-Journals on Civil engineering

S.No	Country	No. of E-Journals	Rank	%
1	Egypt	5	1	14.71
2	India	4	2	11.76
3	Russia	4	2	11.76
4	Romania	3	3	8.82
5	Brazil	2	4	5.88
6	Iran	2	4	5.88
7	Serbia	2	4	5.88
8	United Kingdom	2	4	5.88
9	United States	2	4	5.88
10	Colombia	1	5	2.94
11	Chile	1	5	2.94
12	Hungary	1	5	2.94
13	Indonesia	1	5	2.94
14	Japan	1	5	2.94
15	Poland	1	5	2.94
16	Slovakia	1	5	2.94
17	South Africa	1	5	2.94
		34		

Table 2.1 clearly depicts that the Egypt (14.71%) published more open access journals for society benefit followed by India, Russia with average of 11.76%. It is clear from table India published more access journal after Egypt in field of civil engineering.

Table 3: Language wise distribution of E-Journals on Civil Engineering

S.No	Title of the Journal	Place of the Publication
1	Acta Technica Napocensis : Civil Engineering & Architecture	Romania
2	Journal of the South African Institution of Civil Engineering	South Africa
3	Advances in Civil Engineering	Egypt
4	ISRN Civil Engineering	Egypt
5	Archives of Civil Engineering	Poland
6	Slovak Journal of Civil Engineering	Slovakia
7	Ganpat University Journal of Engineering & Technology	India
8	Magazine of Civil Engineering	Russia
9	Civil Engineering Dimension	Indonesia
10	Structural Engineering / Earthquake Engineering	Japan
11	The Journal of Engineering	United Kingdom
12	International Journal of Civil and Structural Engineering	India
13	Open Civil Engineering Journal	United States
14	Civil Engineering and Technology	United States
15	Scientific Herald of the Voronezh State University of Architecture and Civil Engineering	Russia
16	Computational Methods in Civil Engineering	Iran
17	Revista Teoria e Prática na Engenharia Civil	Brazil
18	Journal of Engineering	Egypt
19	Conference Papers in Engineering	Egypt
20	Chinese Journal of Engineering	Egypt
21	Research Journal of Applied Sciences, Engineering and Technology	United Kingdom
22	International Journal of Recent Technology and Engineering	India
23	International Journal of Innovative Technology and Exploring Engineering	India
24	Facta Universitatis Series : Architecture and Civil Engineering	Serbia
25	Constructii : Journal of Civil Engineering Research	Romania
26	Journal of Civil Engineering and Urbanism	Iran
27	Internet-Vestnik VolgGASU	Russia
28	Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie	Romania
29	Engevista	Brazil
30	Geonauka	Serbia
31	Acta Polytechnica Hungarica	Hungary
32	Ingeniería y Desarrollo	Colombia
33	Revista de la Construcción	Chile
34	Vestnik Volgogradskogo Gosudarstvennogo Arhitekturno-Stroitel'nogo Universiteta. Seriya : Stroitelstvo i Arhitektura	Russia

Table 3.1 analysis of language wise distribution of E-Journals in field of Civil engineering

S.No	Language	No. of E-Journals	Rank	%
1	English	28	1	65.12
2	Russian	3	2	6.98
3	Portuguese	3	2	6.98
4	Spanish	3	2	6.98
5	Romanian	2	3	4.65
6	Indonesian	1	4	2.33
7	Chinese	1	4	2.33
8	German	1	4	2.33
9	Serbian	1	4	2.33

Table 3 and 3.1 gives details of language wise publication on E-Journals in the field of civil engineering. English with 65.12% and followed by Russian, Portuguese, Spanish with equal share of 6.98% language contribution in field of civil engineering.

Table 4 -Distribution of Subject Heading of E-Journals on Civil Engineering

S.No	Title of the Journal	Subject Heading
1	Acta Technica Napocensis : Civil Engineering & Architecture	Construction
2	Journal of the South African Institution of Civil Engineering	General and Civil Engineering
3	Advances in Civil Engineering	General and Civil Engineering
4	ISRN Civil Engineering	General and Civil Engineering
5	Archives of Civil Engineering	General and Civil Engineering
6	Slovak Journal of Civil Engineering	General and Civil Engineering
7	Ganpat University Journal of Engineering & Technology	General and Civil Engineering
8	Magazine of Civil Engineering	General and Civil Engineering
9	Civil Engineering Dimension	General and Civil Engineering
10	Structural Engineering / Earthquake Engineering	Construction
11	The Journal of Engineering	General and Civil Engineering
12	International Journal of Civil and Structural Engineering	
13	Open Civil Engineering Journal	Construction --- General and Civil Engineering
14	Civil Engineering and Technology	General and Civil Engineering
15	Scientific Herald of the Voronezh State University of Architecture and Civil Engineering	General and Civil Engineering
16	Computational Methods in Civil Engineering	General and Civil Engineering
17	Revista Teoria e Prática na Engenharia Civil	General and Civil Engineering
18	Journal of Engineering	General and Civil Engineering
19	Conference Papers in Engineering	General and Civil Engineering
20	Chinese Journal of Engineering	General and Civil Engineering
21	Research Journal of Applied Sciences, Engineering and Technology	Technology (General) --- General and Civil Engineering
22	International Journal of Recent Technology and Engineering	Technology (General)
23	International Journal of Innovative Technology and Exploring Engineering	Computer Science
24	Facta Universitatis Series : Architecture and Civil Engineering	General and Civil Engineering
25	Constructii : Journal of Civil Engineering Research	General and Civil Engineering
26	Journal of Civil Engineering and Urbanism	General and Civil Engineering -- - Architecture
27	Internet-Vestnik VolgGASU	Multidisciplinary
28	Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie	General and Civil Engineering
29	Engevista	General and Civil Engineering
30	Geonauka	Astronomy (General)
31	Acta Polytechnica Hungarica	Technology (General)
32	Ingeniería y Desarrollo	Science (General)
33	Revista de la Construcción	General and Civil Engineering
34	Vestnik Volgogradskogo Gosudarstvennogo Arhitekturno-Stroitel'nogo Universiteta. Seriya : Stroitelstvo i Arhitektura	Architecture

Table 4.1 Analysis of Subject Heading of E-Journals on civil Engineering

S.No	Subject Heading	No. of E-journals	Rank	%
1	General and Civil Engineering	24	1	66.67
2	Construction	3	2	8.33
3	Technology (General)	3	2	8.33
4	Architecture	2	3	5.56
5	Multidisciplinary	1	4	2.78
6	Computer Science	1	4	2.78
7	Astronomy (General)	1	4	2.78
8	Science (General)	1	4	2.78
	Total	36		

Table 4 and 4.1 Shows that interdisciplinary scope of the Civil Engineering published under the DOJA. It is explanatory that majority of the journals are published in the general and civil engineering (66.67%) in the core area of civil engineering.

Table 5: Subject Keywords of Online Journal on the Civil Engineering

S.No	Title of the Journal	Keywords
1	Acta Technica Napocensis : Civil Engineering & Architecture	architectural engineering --- structural engineering --- building construction
2	Journal of the South African Institution of Civil Engineering	civil engineering --- technology
3	Advances in Civil Engineering	civil engineering
4	ISRN Civil Engineering	civil engineering
5	Archives of Civil Engineering	civil engineering
6	Slovak Journal of Civil Engineering	civil engineering
7	Ganpat University Journal of Engineering & Technology	civil engineering --- computer science --- electronics --- biomedical engineering
8	Magazine of Civil Engineering	civil engineering --- construction --- design --- technology
9	Civil Engineering Dimension	civil engineering science and application
10	Structural Engineering / Earthquake Engineering	civil engineering --- structural engineering --- earthquake engineering
11	The Journal of Engineering	biomedical engineering --- civil engineering --- computing --- electrical engineering --- energy engineering --- mechanical engineering --- nanotechnology
12	International Journal of Civil and Structural Engineering	general engineering --- civil engineering --- structural engineering --- finite element analysis --- applied research
13	Open Civil Engineering Journal	engineering --- materials
14	Civil Engineering and Technology	foundation engineering --- engineering mechanics --- structural engineering --- architectural structure --- building materials
15	Scientific Herald of the Voronezh State University of Architecture and Civil Engineering	construction --- architecture --- bridges
16	Computational Methods in Civil Engineering	computational methodology --- computational modeling and simulation --- engineering
17	Revista Teoria e Prática na Engenharia Civil	civil engineering --- design --- construction
18	Journal of Engineering	chemical engineering --- civil engineering --- computer engineering --- electrical engineering --- industrial engineering --- mechanical engineering
19	Conference Papers in Engineering	chemical engineering --- civil engineering --- computer engineering --- electrical engineering --- industrial engineering --- mechanical engineering
20	Chinese Journal of Engineering	chemical engineering --- civil engineering --- computer engineering --- electrical engineering --- industrial engineering --- mechanical engineering
21	Research Journal of Applied Sciences, Engineering and Technology	agricultural engineering --- biotechnology --- civil engineering --- food science and technology --- electrical engineering --- production engineering --- mechanical engineering --- physics
22	International Journal of Recent Technology and Engineering	computer science --- civil engineering --- mechanical engineering --- information technology --- electronics --- telecommunication
23	International Journal of Innovative Technology and Exploring Engineering	information technology --- electrical and electronics engineering --- telecommunication --- mechanical engineering --- civil engineering
24	Facta Universitatis Series : Architecture and Civil Engineering	traffic --- architecture
25	Constructii : Journal of Civil Engineering Research	concrete technology --- building equipment --- masonry structures --- steel structures --- building acoustics
26	Journal of Civil Engineering and Urbanism	building materials --- modern structures --- urban architecture --- criminology --- transportation
27	Internet-Vestnik VolgGASU	civil engineering --- architecture --- construction --- computational geometry --- chemistry
28	Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie	civil engineering --- mechanical engineering --- electrical engineering
29	Engevista	industrial engineering --- mechanical engineering --- civil engineering --- chemical engineering --- agronomics
30	Geonauka	geography --- geology --- geophysics --- mining --- civil engineering --- architecture
31	Acta Polytechnica Hungarica	mechanical engineering --- informatics --- mathematical sciences --- civil engineering --- mechatronics
32	Ingeniería y Desarrollo	civil engineering --- mechanical systems --- electrical engineering --- computer science
33	Revista de la Construcción	building activity --- construction management --- civil construction engineering --- building materials
34	Vestnik Volgogradskogo Gosudarstvennogo Arhitekturno-Stroitel'nogo Universiteta. Seriya : Stroitelstvo i Arhitektura	construction --- civil engineering --- buildings --- heat supply --- town planning --- building materials

Table 5: indicates the useful keywords for searching in each online journal on Civil Engineering so that user would not waste their time by browsing broad keywords.

Table 6: Year wise distribution E-Journals in the field of Civil Engineering

S.No	Start Year	No. of Journals	%
1	2013	5	17.86
2	2012	2	7.14
3	2011	3	10.71
4	2010	7	25.00
5	2009	3	10.71
6	2007	1	3.57
7	2006	2	7.14
8	2005	1	3.57
9	2004	1	3.57
10	2003	1	3.57
11	2000	1	3.57
12	1999	1	3.57
		28	

MAJOR FINDING OF THE STUDY

- It observed that Brazil was in first position with the average of 14.71% and followed by India and Russia with 11.76% among in 34 E-Journals in the field of civil engineering
- English ranked first with 28 E-Journals with the percentage of 65.12 followed by Russian Portuguese with the percentage of each 6.98% in civil Engineering.
- It is observed that in the field of Civil Engineering E-journal are interdisciplinary in nature
- It is observed that in 2010 started more number of E-Journals in the field of Civil Engineering with percentage of 25.00 followed by 2013 with the percentage of 17.86.

CONCLUSION

DOAJ is covers all open access scholarly and scientific journals and having a quality control system which is not limit to a particular subject or particular language. DOAJ increase the visibility of the scholarly journals there by promote usages and impact on the society professionals should browed these journal form DOAJ site and access free access E-Journals on there filed. It promoting research work in online open access for wider visibility of their research work and get good impact factor and citation index.

REFERNCES

1. www.doaj.org (access date 02/11/2013)
2. www.wikipedadia.com(access date 01/11/2013)
3. Directory of open access journals,health science—nursing a bibliometric study by Rajeev Vashistha, Madan Lal Jat; Journal of Indian Library Association 2012,48(2) 26-35.

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