Developing Smart Libraries
Changes Challenges
Issues & Strategies

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Dr. Nabi Hasan is working as a Librarian at Central Library, Indian Institute of Technology Delhi (IITD). Prior to this, he has served as the University Librarian of Aligarh Muslim University (AMU). He has also served earlier as Deputy Librarian in the IITD during 2009-2016 and as Deputy Librarian/

Assistant Librarian and a Regular Post Graduate Faculty at Himachal Pradesh Agricultural University, Palampur (HP) during 1997-2009. "First Borlaug Fellow From India" in Library Information Systems at Cornell University, New York, USA: Dr. Hasan is the recipient of the many national and international awards and recognitions including "Vice-Chancellor Appreciation Award 2003", "Appreciation From The Chairman, Board Of Governors, IIT Delhi" in 2012, "Lifetime Achievement Award 2015" for Extraordinary Services and Dedication towards Library Science, Appreciations From The Vice-Chancellor of The Aligarh Muslim University 2018, etc. He has won the Bonnie Hilditch International Librarian Award 2018 USA, one of the most reputed professional awards for significant professional contributions by Special Libraries Association USA (SLA), presented during its Annual Conference during June 9-13, 2018, Baltimore, USA. Dr. Hasan has an experience of 23 years of active library services and postgraduate teaching. He has published 13 Books/composite Books and 125 papers/articles in reputed journals, conferences, composite books, etc. Dr. Hasan is currently the Treasurer-Elect 2018 Special Libraries Association (SLA-USA) - Asian Chapter and in the past also served as the Director of the association. He has also served as the Chair–Editorial Board, Asian Chapter - 2015 & 2016 and Member-Online Content Advisory Council – 2016. He is also the Vice-President -Indian Association of Special Libraries and Information Centres (IASLIC). More details about him are available at: http://web.iitd.ac.in/~hasan

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Central University of Kashmir

Established Under Central Universities (Amendment) Act, 2009

July 12, 2018

Prof. Me'raj Ud Din Mir
Vice Chancellor

FOREWORD

It is an honour for all of us that we have been given an opportunity to organize 3rd International Conference of Asian Libraries at Central University of Kashmir.

I congratulate the Office bearers of Asian Library Association (ASIALA) New Delhi and staff of Central Library, Central University of Kashmir for publishing pre-conference proceedings. I am sure that the proceedings shall be of immense value for the overall development of Library Systems which play an important role in overall development of societies and academic setup. The use of modern gadgets in Libraries have facilitated the research work of faculty members, Scholars, students and others. But let me say that traditional printed book and e-book shall stay side by side for longer time.

I hope and anticipate that the discussions and deliberations during the conference shall be of great value.

Once again I congratulate the organisers of the conference, paper contributors and others for organising the conference.

I wish the conference a grand success.

(Prof. Me'raj Ud Din Mir)

Preface

The concept of smart libraries involves developing, transforming and repositioning libraries to innovate and strive for improvement. Smart libraries have transformative impact on users to operate according to high professional standards, ethical principles and values. These libraries, exemplify knowledge-based organizations, use research and data to build understanding, make decisions and decide the future, focus on laws, principles, ambiguity, uncertainty to create positive outcomes and constructive relationships. Smart Libraries must demonstrate efficiency and effective Economy in purchasing resources. Smart libraries require vision, values and goals, frameworks and evidence for service development, collection management, evaluation, and quality control. Smart libraries play a major role in the creation of networked and more sustainable communities. Smart Libraries in smart cities is need of an hour in all the countries particularly in India where smart cities concept is flourishing The overall purpose of conference is to examine this transformational process into smart libraries and positioning the Library as a key player for sustained engagement and capability building of Library staff, Massive Open Online Courses (MOOCs) development team and learners, working in partnership with stakeholders to embed academic skills development within curriculum and developing high quality learning resources and tools that are interactive, engaging, collaborative.

As technology make a lasting impact on all sectors, people today expect to be able to find and access information from wherever they are. This makes challenges for the libraries and deeply impacted its structure – physically as well as conceptually. Because of this reason, most of the libraries across the country have increased the number of computers, onsite Wi-Fi to check out books to use inside the library. But in today's digital world simply focusing on increasing the number of system or space of the library is not sufficient. As we move forward into the digital age to continue the libraries must not only modernise their physical appearance but also their marketing and should take the advantage of new technologies. Like an ever-evolving smartphone technology, a smart library is constantly assessing to make the future a reality.

According to celebrated commentator Chip Weston "technologies that have been maturing over the last decades are no longer on the horizon but on our doorsteps. They are being deployed by the thousands and portend substantial changes in just about every aspect of our lives. Massive amounts of data are generated and self-learning, self-improving artificial intelligence is being used to not only make sense of the data but to leverage that information for good and nefarious purposes. Hundreds of new applications are discovered and come online every day in all fields of endeavour"[1].

1. Chip Weston http://www.libraryvision.org/smart_libraries_community_development_through_innovation_and_partnerships

While the convergence of different technologies makes it difficult to forecast the future, the sheer amount of digital data, when harnessed effectively, makes it possible to better read the needs of the local community, government, organizations and businesses. Libraries are often the ideal and in some cases, the only organizations that can best articulate and leverage these data-related opportunities.

According to observers key factors in the success of smart library programs are:

- Sustainable revenue
- Sharing best practices
- New governance models
- Measuring outcomes
- Crowd sourcing the untapped intelligence within each community
- A real-time local "dashboard" of relevant information
- Access to adequate broadband
- Adequate protection for privacy

The conference is jointly organized by Central University of Kashmir and Asian Library Association and 83 conference papers have been contributed by 150 young and experienced authors. An effort is being made to understand and to explore the issue of developing smart libraries in the face of fast changing concepts of scholarly communication, digital preservation, cyber infrastructure, information technology standards and specify the critical skills required to build and maintain smart libraries as resource centreand discuss how libraries can be attuned in the direction of achieving the goals of disseminating e-resources. In the process, the contributors also discuss as to how libraries have to go a large scale transformation to meet this challenge of digital environment and its accompanied implications. We are sure that readers will find the papers engaging and useful and valuable addition to the literature of Library and Information Science.

Dr. Abdul Majid Baba
Dr. Raj Kumar Bhardwaj
Dr. S.S.Dhaka
Dr. Tariq Ashraf
Dr. Nabi Hasan
(Editors)

Srinagar, August 1, 2018

Acknowledgements

The organizational process of 3rd International Conference of Asian Libraries, (ICAL) 2018 has drawn support from a large number of institutions, publishers, individuals, professional colleagues, staff members and large number of friends. It would not have been possible to hold the conference successfully without their generous and unstinted help, advice and acclaim at several critical moments. We express our sincere thanks to Prof. Me'rajUd Din Mir, Hon'ble Vice Chancellor, Central University of Kashmir, for approving the conference and his constant support in organizing the conference. We express our sincere thanks to all the officials of Central University of Kashmir including staff of Central Library for their support and guidance.

We also express our sincere thanks to Asian Library Association, New Delhi in collaborating with Central University of Kashmir for holding this conference. The collaboration has raised the standards of the conference immensely.

We are thankful to all the members of conference advisory committee, experts, resource persons and invited speakers and particularly our contributing authors and other participating delegates for their support and adding value to the programme, conference volume, and deliberations by their kind presence and participation.

We sincerely thank all the publishers, distributors and organisations for their financial support and sponsorship of the conference.

We express our sincere thanks to all the authors for contributing papers to the volume and hope that publication will be a welcome addition to the literature of Library & Information Science. August 01, 2018

Dr. Abdul Majid Baba
Dr. Raj Kumar Bhardwaj
Dr. S.S.Dhaka
Dr. Tariq Ashraf
Dr. Nabi Hasan
(Editors)

Srinagar, August 1, 2018

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Publication Productivity of 'E-Learning' by Scopus During 2003-2017

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Abstract

E-learning refers to learning that is facilitated by using digital tools and contents. It involves some form of interactivity, which may include online interaction between the learner and their teacher or peers & Scopus is a premier research platform, helping to find, analyze, and share information in the sciences, social sciences, arts, and humanities. Therefore, the present study discusses the "e-learning" as reflected in Scopus for the period from 2003-2017. The present paper investigates to find out the top contributing institutions, most prolific authors, the preferred sources for publications, by Geographical distribution by country, Subject area, Source Type, Affiliation, and Language etc. The result indicates that there were total 11948 documents on e-learning from 2003 to 2017. The main institutes contributing to e-learning are Universitat Oberta de Catalunya contributed 86 documents.

Keywords: *E-learning, Scopus, Publication Productivity.*

1. Introduction

The term "e-learning" has been in used since 1999 when the word was first utilized at a CBT systems seminar. Other words also used synonymously such as "online learning" and "virtual learning". Horton (2000) explained E-learning is part of the biggest change in the way our species conducts training since the invention of the chalkboard or perhaps the alphabet. The development of computers and electronic communications has removed barriers of space and time. We can obtain and deliver knowledge anytime anywhere. Thus from the above discussed importance of e-learning, the research study is taken for research purpose. Epignosis LLC. (2014) E-learning is a nebulous term; meaning teaching-learning facilitated through the modern media like web, satellite, cable networks, etc. E-Learning is self-learning process using IT Communications, networks and other means.

3. Objectives of the Study

1. To Identify Publication productivity on E-learning by chronologically.
2. To find out highly productive authors E-learning.
3. To analyze the data geographically and types of documents.
4. To get information Writing of Research areas.
5. To finds out Language wise documents in Scopus on E-learning.

4. Methodology of the Study

The scope of the research is restricted to search results on the "E-learning" by using Scopus database during 2003 to 2017. The following type search strategy used for the data collection for the study.

In the Scopus database search "E-Learning" in Title Field & year 2003 to 2017 restricted for the results. Scopus data was used in the study. Scopus is Elsevier's abstract and citation database launched in 2004. Scopus covers nearly 36,377 titles from approximately 11,678 publishers, of which 34,346 are peer-reviewed journals in top-level. (https://www.scopus.com/home.uri)

6. PREVIOUS STUDIES RELATED TO RESEARCH

(Khiste Gajanan P. & Amanullah Amir, 2017) studied the availability of "Knowledge Management" publication in Web of Science for the period from 2007–2016. The result indicates that there were total 6084 documents on Knowledge Management from 2007 to 2016. According to the geographical distribution of documents. (Kumar Phuldeep and Gulla Umesh, 2011) discussed e-learning as adopted by the corporates to boost their employee training efforts. The concept of corporate e-learning, stimulators for adoption, various benefits and drawbacks, present state, and e-learning experiences have been enumerated. (Kumar Ram & Kush Ashwani, 2006) analysis has been done to find the positive and negative impacts of e-learning. The days of the traditional classroom are far from over; e-learning is going to become a powerful supplement to traditional teaching methods, not replace it entirely. (Pujar S.M. and Kamat R.K., 2009) discusses e-learning-library linkages and the innovations implemented in the top ranking off-shore public libraries that the Indian LIS community can follow. It reveals an emanating strongly bonded model of e-learning–library linkage required for the sustenance and mutual growth of the duo. This will also lend a hand in emerging an open knowledge culture and ultimately beneficial for the evolving knowledge society. (Sehra Siddharth, Maghu Sunakshi and Bhardawaj Avdesh, 2014) critically review the comparison between e-learning and distance learning techniques, discussing the effectiveness, drawbacks ,and advantages of both. (Veer D. K., Khiste Gajanan P. & Deshmukh Rahul K., 2018) studied availability of publication on the term Information Literacy in Scopus database during the period 2007 to 2016. It is observed from the study total 2097 documents available on Information Literacy in Scopus from 2007 to 2016. (Veer D. K., Khiste Gajanan P. & Veer Chaitanya, 2018) discusses the term "Cloud Computing" as reflected in SCOPUS for the period during 2009 to 2016. The present paper investigates the highly productive authors, Document Types, it aims to find out the top contributing institutions, most prolific authors, the preferred sources for publications by Geographical distribution by country, Subject area, Source Type, Affiliation, and Language etc. The result indicates that there are 11251 documents on Cloud Computing during 2009 to 2016. India s contribution to Cloud Computing is 1465 documents during 2009 to 2016, which is on the third rank.

(Watanbe Keiko, 2005) studied the needs of Japanese universities and learners for e-learning.

7. Results

The dataset was analyzed from various angles to achieve the objectives of the study. The results are presented below in tables 1-10.

7. 1 Year wise Document Productivity Analysis

It is seen from the table no.1 year wise publication productivity on "E-learning".

Table No. 1. Year wise Documents Published on "E-learning"

Year	*Documents (Percentage)*	*Cumulative*
2017	725 (6.07)	725
2016	772(6.46)	1497
2015	781(6.54)	2278
2014	840(7.03)	3118
2013	894(7.48)	4012
2012	923(7.72)	4935
2011	987(8.26)	5922
2010	1121(9.38)	7043
2009	1109(9.28)	8152
2008	1027(8.6)	9179
2007	835(6.99)	10014
2006	751(6.29)	10765
2005	600(5.02)	11365
2004	329(2.75)	11694
2003	254(2.13)	11948
Total	**11948(100)**	

It is seen from the Table No.1 year-wise publication productivity on "e-learning". The largest number of documents were published in the year 2010 i.e., 1121 (9.38%) and smallest number of documents 254 (2.13%) were published in the year 2003.

7.2 *Most Active Authors*

The author has analyzed the data related to active authors for writing documents on "E-Learning" and it is presented in the Table No. 2. Sandars, J. ranks first who has contributed a maximum number of 44 documents and on 5th rank 18 documents published by Gaeta, M. & Wang, M.

Table No. 2. Top Five Authors

Name of the Author	*Documents*	*Rank*
Sandars, J.	44	1
Okamoto, T.	26	2
Cristea, A.I.	21	3
Jemni, M.	21	3
Xhafa, F.	21	3
Barolli, L.	19	4
Gaeta, M.	18	5
Wang, M.	18	5

7.3 *Geographical Analysis of Documents*

Table No. 3 depicts the geographical distribution of documents. Highest documents contributed by United Kingdom authors i.e. 1084 documents, followed by the United States with 1005 documents to its credit. China published 907 documents and Spain produced 723 documents and India published 533 documents with the rank 7th position.

Table 3. Top 10 Country wise highest documents on "E-learning"

Sr.No.	**Country**	**Documents**	**Rank**
1	United Kingdom	1084	1
2	United States	1005	2
3	China	907	3
4	Spain	723	4
5	Taiwan	655	5
6	Germany	627	6
7	India	533	7
8	Italy	497	8
9	Japan	495	9
10	Australia	457	10

7.4. Types of Documents

Table No.4 indicates that there are 13 different types of documents however the highest number of documents published in Conference Paper i.e. 6187 (51.78%), smallest number of contributions are categorized under Retracted i.e. 1 (0.01%).

Table No.4 Documents Types & No. of Documents on "E-Learning"

Sr.No.	*Document Types*	*No. of Documents*	*Percentage*
1	Conference Paper	6187	51.78
2	Article	4058	33.96
3	Book Chapter	874	7.32
4	Review	336	2.81
5	Editorial	99	0.83
6	Conference Review	93	0.78
7	Note	88	0.74
8	Book	76	0.64
9	Short Survey	55	0.46
10	Letter	43	0.36
11	An Article in Press	27	0.22
12	Erratum	11	0.09
13	Retracted	1	0.01
	Total	**11948**	**100**

7.5. Data Analysis by Subjects

From the Table No. 5 it is seen that subject-wise analysis indicates that the highest number of contributions was in the area of Computer Science (6697) followed by Social Sciences (5036) documents.

Table 5. Subject wise Documents Availability on "E-learning"

Sr.No.	*Subjects (Documents)*
1	Computer Science(6697)
2	Social Sciences(5036)
3	Engineering(2370)
4	Mathematics(985)
5	Business, Management and Accounting(937)
6	Medicine(894)
7	Decision Sciences(457)
8	Arts and Humanities(239)
9	Psychology(228)
10	Nursing(203)
11	Health Professions(170)
12	Biochemistry, Genetics and Molecular Biology(132)
13	Economics, Econometrics and Finance(116)
14	Physics and Astronomy(102)
15	Materials Science(99)
16	Environmental Science(77)
17	Energy(72)
18	Multidisciplinary(67)
19	Agricultural and Biological Sciences(63)
20	Chemical Engineering(57)
21	Earth and Planetary Sciences(51)
22	Pharmacology, Toxicology and Pharmaceutics(45)
23	Chemistry(38)
24	Dentistry(30)
25	Neuroscience(17)
26	Undefined(12)
27	Veterinary(10)
28	Immunology and Microbiology(5)
	Total(19209)

7.6. *Highest Ranking Sources*

Table No. 6 indicates that highest ranking sources in which documents were published. As per Table No.6, Lecture Notes in Computer Science ranks first with 522 documents to its credit, followed by Proceedings of the International Conference on E-Learning ICEL ranking on second with 148 documents & Proceedings of the European Conference on E-Learning ECEL are on the Tenth rank with 65 documents.

Table 6. Highest Ranking Sources in which published documents on "E-learning"

Highest Ranking Sources	*Documents*
Lecture Notes In Computer Science	522
Proceedings of the International Conference on E Learning ICEL	148
Communications In Computer And Information Science	130
ACM International Conference Proceeding Series	122
Computers And Education	118
Ceur Workshop Proceedings	101
International Journal of Emerging Technologies In Learning	97
Educational Technology And Society	77
British Journal of Educational Technology	73
Proceedings of the European Conference on E-Learning ECEL	65

7.7 *Documents Analysis by Language wise*

The Table No. 7 indicates that Documents Analysis by Language wise on "E-learning". It is observed that the English Language is highly preferred language for writing documents on E-learning i.e.11487 documents.

Table 7. Documents Analysis by Language wise on "E-learning"

Language (Documents)	*Rank*
English (11487)	1
German (171)	2
Spanish (122)	3
French (69)	4
Chinese (55)	5

7.8 *Collaborative Platform*

Table No. 8 shows the top ten Affiliation contributions on the topic of "E-learning". Highest documents contributed by Universitat Oberta de Catalunya i.e.86 documents & the University of Hong Kong contributed 46 documents on the rank tenth.

Table 8. Affiliation wise Distribution of Documents on "E-learning"

Institution	*Documents*	*Rank*
Universitat Oberta de Catalunya	86	1
University of Zagreb	62	2
Universita di Salerno	58	3
City University of Hong Kong	54	4
Open University	53	5
Athabasca University	52	6
Universidad de Vigo	52	7
University of Southampton	51	8
King Saud University	47	9
The University of Hong Kong	46	10

7.9 Source Types

It is seen from the figure 1 and Table No.9 that highest source type wise documents on "E-learning". Published in Conference Proceedings i.e. 5330 (44.61%) and lowest published in Trade Publications 51 (0.43%).

Table 9. "E-learning" documents by Source Type wise in Scopus

Source Type	*Documents (Percentage)*
Conference Proceedings	5330(44.61)
Journals	4563(38.19)
Book Series	1063(8.89)
Books	941(7.88)
Trade Publications	51(0.43)
Total =	**11948(100)**

8 Conclusion

Publication access type means the type of category of documents whether documents are available

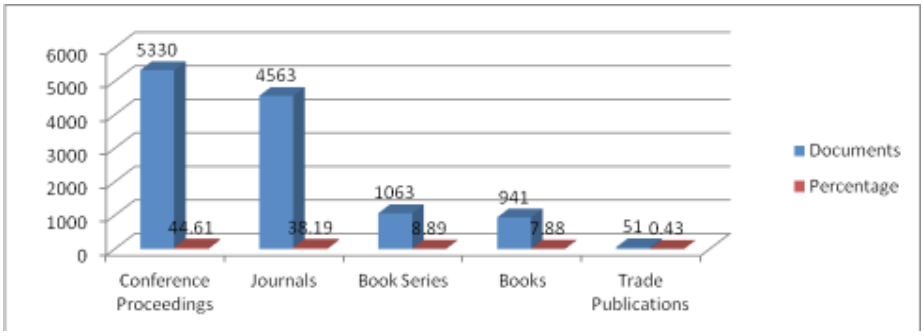

Figure 1. "E-learning" documents by Source Type wise in Scopus

Open Access or Subscribe Based through Scopus is defined in Table No.10. Table shows that among total 11948 documents 150 (1.26%) documents are open access and 11798 (98.74%) articles are Subscribe Based. It is concluded from the above study that there was a valuable publication contribution by Authors, different Countries in the field of "E-learning" during the study period. The contribution of documents on "E-learning" indicates that healthy pattern of progress in this field.

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