

**EIGHTH NATIONAL CONFERENCE OF INSTITUTE OF SCIENTOMETRICS (IOS)  
“Scholarly Communication and Scientometrics” organized by Advance Centre for  
Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai  
22-23 November 2019**

**Reported by**

**Dr. Shamprasad M. Pujar, Chief Librarian, Indira Gandhi Institute of Development  
Research, Mumbai**

The conference started with lighting of lamp, which ushered the illumination of knowledge. The inauguration function had Prof. P.S. Vasudev Rao, Hon' Vice Chancellor, HBNI, Mumbai as Chief Guest. The other dignitaries on the dais were Dr. Dixit, Director, CCE, Prof. S.L. Sangam, Former Professor, DLIS, Karnataka University and Founder, IOS and Dr. Satish Munnolli, Organizing Secretary, IOS-2019 and Librarian, ACTREC.

Dr. Satish Munnolli gave an overview about the conference and germination of idea for the conference topic 'Scholarly Communication and Scientometrics'. Prof. S.L. Sangam talked about IOS and its activities. Dr. Dixit in his welcome address mentioned that, too much information is causing problem for researchers in choosing the right kind of information, hence stressed the need for techniques in filtering information. Secondly, he pointed out that, there is a need to train young researchers in writing papers and rendering the authorship in papers for producing quality research output. Prof. Vasudev Rao in his remarks gave an historical account of scholarly communication and scientometrics and cautioned that, too much reliance on citations is bad for the growth of scientific output. Further he emphasized on a research to find out alternative models to assess the scholarly outcome. He along with other dignitaries on the dais also released the conference proceedings volume.

Prof. Kannan Moudagalay, Professor, Chemical Engineering Department and Coordinator, National Virtual Library of India (NVLI), IIT Bombay, delivered a keynote address on 'Public libraries to Centers of learning through social media engineering'. In his address, he emphasized on public libraries as centers of learning and spoke about spoken tutorials in regional and foreign languages developed on NPTEL to educate learners from India and other developing countries. He gave detail account of National Virtual Library of India (NVLI) and its aim to digitize and provide access to material on culture of India by making museums, archives and public libraries as partners of the programme. He also mentioned about KOHA - the library management software training programme for librarians offered through NVLI and development of directory of public libraries in India. He further said that under the aegis of National Mission of Libraries, the NVLI wishes to partner with public libraries in training their staff in the use of library software such as KOHA and DSpace.

**Day-I: November 22, 2019**

**Technical Session-I**

The first session was chaired by Dr. S.K. Savanur, Former faculty, DLISc, Joshi-Bedekar College, Thane. The session had two invited talks and five papers were presented by the delegates.

**Invited Talk-1:**

Dr. G. Mahesh, Principle Scientist, NISCAIR, New Delhi presented on ‘India in the Changing Landscape of Scholarly Communication’. He discussed journals historical perspective, changing scenario of journal publications in different forms such as open access journals, data journals, video journals, wiki journals, overlay journals, journal without publication of papers, mirror journals and highlighted F1000 as an alternatives to journals. Highlight of his talk was on impact of Indian open access journals, particularly NISCAIR journals and pointed out that, citations to articles published in these journals have not increased and at the same time revenue has plummeted. He argued that, whether open access to Indian journals is really required looking into their cost. Also he touched the topics such as, piracy websites, research tools and their adoptability among Indian researchers, alternative metrics, research data management, plagiarism, retractions and Plan S, its non feasibility in Indian conditions.

**Invited Talk-2:**

Dr. Medha Joshi, NCG-TMC, Mumbai presented her talk on ‘Scholarly communications in Medical Sciences: Trends and Challenges’. She started off with early 90s serials crisis owing to ever increasing cost of journals and shrinking budgets of libraries. She gave an overview of scholarly communication in medical sciences from print to digital era resulting in peer reviewed journals, informal means of communication such as blog posts, social media and channels to distribute supplementary data such as pathology slides, presentations, videos, raw data etc. She harped on research data linking, verification and visualization. She also discussed about journals with only special content such as cases, videos and systematic reviews. Also, pointed out that increasing role of social networking sites in medical scholarly communication.

Dr. Satish Kanamadi, Librarian, Tata Institute of Social Science, Mumbai Chaired the rest of the session.

**Paper Presentations:**

Dr. Saroja presented a paper on ‘Innovative strategies of library and information centres in the changing scholarly communication landscape’ elaborated about earlier system and new models of scholarly communication, changes in the process of peer review and subscription models. She also mentioned about transformative agreements involving read and publish between publishers and libraries.

Dr. S.K. Savanaur, presented a paper on ‘Scientometrics and readability’. He discussed about reader and author side readability in terms of language, accuracy, external intervention, training, grammar, etc. and the link between readability and scientometrics.

Dr. A. Reddy presented a joint paper on ‘Research collaboration and networks in scholarly communications’, wherein he discussed about collaborations among authors, reasons and types of collaborations and discussed the roles of Scholarly Communication Networks (SCNs) such as ResearchGate in enhancing collaborations.

Dr. S.M. Pujar in his collaborative paper on ‘Google Scholar Citations’, spoke on Google Scholar citations, coverage, advantages, retrieval of citation information and other research metrics using ‘Publish and Perish’ software.

Mr. Ganesh Surwase presented a joint paper on ‘Publications and citation trends of scholarly journal ‘Nature’, and discussed about citation pattern of this journal and dealt with citations pattern among closed and open access journals.

## **Technical Session–II**

Dr. B.S. Kademani, Formerly Scientific Officer ‘G’ with BARC, Mumbai, Chaired the session. The session had one invited talk and two papers were presented.

### **Invited Talk:**

Dr. Satish Kanmadi presented on ‘Research impact, assessment and innovation’. In his address, he elaborated on collaborative learning, accreditation, MOOCs and research. He harped on research impact in terms of academic, economic and societal and its benefits to academics, society and individuals. He emphasized that researchers need to check what could my research change? , and whom could my research benefit?, how can make this happen?, and its uptake outside academia. He further discussed on research assessment, inputs, outputs and outcomes in terms of publications and their long term societal benefits. He covered the role of assessment agencies such as QS, Times Higher Education, Leiden rankings, NIRF etc. He mentioned that, research and citations contribute 50% of weightage while ranking of universities by these assessment agencies. Finally, he explained research assessment at TISS and course on digital scholarship being offered to students and researchers.

### **Paper presentations:**

Ms Mugdha Raul, in her joint paper on ‘Scholarly communication tools’, discussed about available tools in enhancing the impact of scholarly communication. She made a mention of certain tools such as image banks, online visual journals, social media, science blogs and altmetrics. She also, elaborated on the role of LIS professionals in enhancing the use of these tools by researchers.

Mr. Rangarajan in his paper on ‘Scientometric analysis – Institutional research output’, discussed about citation databases, research metrics and IGCARs publications citation analysis in terms of authorship, subjects, journals, collaborations, h-index, etc. for a period ten years - 2009-2018.

### **Technical Session–III**

The session was chaired by Dr. Medha Joshi. The session had two invited talks and two papers were presented.

#### **Invited Talk-1:**

Dr. Murari Tapaswi, OSD, Goa University, Goa, gave his talk on ‘Author collaboration and Citations: A Case study of Indian authors’. In his address, he discussed about ranking of Goa University by Indian and international rating agencies such as QS, Times Higher Education, etc. He further elaborated on the research collaboration of Goa University with other organizations and countries (464 unique organizations and 51 countries) by analyzing publications of university from 2014 to 2018 accounting for 811 publications, out of which 475 indexed in Scopus/Web of Science. He informed that, incentives introduced enabled the increase in number of publications in Scopus indexed journals. In the study he observed that, multi-authored papers received more citations. He also elaborated that the difference in citation patterns may be owing to data from a single organization, period and latest publications.

#### **Invited Talk-2:**

Dr B.S. Kademani, spoke on ‘Scientometric portraits of scientists’. He elaborated on research communications and raised several questions like why scientists should do research? Why to evaluate? , and what is the need for such evaluation? Further he elaborated on importance of evaluation as policy makers, funding agencies and institutes need to assess the productivity of individual authors or institutes or countries. In such scenario, scientometrics techniques are used to assess the productivity, activity, impact and progress. He shared several BARC studies on various institutions, countries, noble laureates etc. According to him, individuals are one of the sources of ideas, hence, selected studies of individual scientists, which is popularly known as ‘Scientometric portrait’.

#### **Papers presented:**

Mr. Nilesh Hande in his paper on ‘Webometrics study of websites of universities: A Study with specific reference to the Maharashtra State’ provided an overview of webometrics and discussed about ranking of universities in the state of Maharashtra.

Ms. Rupali Kumbhar in her joint paper on ‘ICT components in MLISc curriculum in universities of Karnataka State’, discussed about how the universities in the state of Karnataka included ICT component in the syllabus of MLISc.

**Day-2: November 23, 2019**

**Technical Session-IV**

The session was chaired by Dr. S.L. Sangam. The session had two invited talks and four papers in the session.

**Invited Talk-1:**

Dr. P.V. Konnur, Former Professor, DLIS, Rani Chennamma University, Belagavi and Head, LIS Academy, Bangalore presented his talk on 'Impediments of Indian research'. He discussed about transformation of research from the past to present and its impact on society, academics and economy. He also highlighted research undertaken at government, HEI and private organizations. He elaborated on massification in Indian HEI sector involving academic institutes and research organizations funded by central and state governments. He emphasized on Gross Enrollment Ratio (GER) of research students, growing number of PhDs, but pointed out on lacking of research impact on the society. He compared the publications output of China, India and other countries and mentioned that China is far ahead of India. He said that the strength of India lies in young manpower and demography dividend, but owing to deficiency skills and employability among the graduates is great challenge for India. He briefed on the rate of plagiarism and SCI papers retraction, predatory publishing in India is higher as compared other countries.

**Invited Talk-2:**

Mr. N.V. Sathyanarayana, Chairman and Managing Director, Informatics Publishing, Bangalore spoke on 'Open access: Global scenario and local challenges'. In his talk, he discussed about the types of open access models and path of its progress, growth and controversies. He further shared his thoughts on OA movement, its prevalence and persuasiveness. He pointed about a 'Nature' article, which discussed half of papers searched available online free to read. He emphasized that, free to reuse is an issue in line with Budapest OA declaration. He mentioned that different approaches are used to identify open access - one is articles with DOI, which is actual and the other is accessed via Unpaywall, which is based on the researchers study. Hence, the percentage of open access publications varies across the studies. He further mentioned that greater part of open access is still controlled by the publishers. However, he emphasized that, at present greater percentage of publishers are allowing green OA in the form of self-archiving by authors. The models such as ResearchGate and Plan S may disrupt open access model, which may shift from consumption to supply. He also elaborated on India's research growth story and lack of journals for researchers to publish owing to failure to establish scholarly publishing industry in India. He concluded his talk by emphasizing on a need of perceptual change among stake holders regarding open access.

**Paper presentations:**

Ms. Swapnali Patil in her joint paper on 'Tools for discovery of open access articles: A Study', discussed about challenges of information explosion, aggregation of search engines, complex

search procedure using tools like Open DOAR and the role of discovery tools like Google Scholar button, Lazy Scholar, Kopernio and Unpaywall in effective retrieval of full text of papers.

Ms. Shweta Pathak in her joint paper ‘Massive Open Online Courses: Their impact on education and LIS profession’ provided an overview of MOOCs and discussed about their impact on higher education and LIS profession.

Ms. Garima Gujral, in her paper on ‘Emergence of OA scientific publications in IIT Bombay: A Scientometric study towards realizing Plan S’, discussed about publications of IITB published in open access journals during the last 10 years. Also, explained about Plan S and its way forward for India.

Ms. Sunita Pujar in her joint paper on ‘Plan S: An opportunity or challenge to open access’, elaborated Plan S and its implications for researchers, publishers, disciplines and the global south.

### **Technical Session–V:**

The session was chaired by Dr. P.V. Konnur. The session had three invited talks and one paper was presented by the delegate.

#### **Invited Talk-1:**

Dr. S.L. Sangam, presented his talk on ‘Scientometric approach to agricultural literature with GDP’. In his talk, he elaborated on relation between number of publications and economic indicators (GDP). His study dealt with correlation between number of publications and economic indicators about 15 countries using Web of Science (WOS) for a period of 20 years 1998-2017. In his talk he pointed out that global agricultural output shows greater correlation between economic indicators and publications and also elaborated on India’s agricultural scholarly publications V/s economic indicators.

#### **Invited Talk–2:**

Dr. Praveen Gawali, Scientist, Indian Institute of Geomagnetism, Navi Mumbai in his presentation on ‘Scientometrics: Credit score challenges’, gave historical perspective on science and scientist’s contributions towards growth of science and research. He mentioned that, exponential growth of science happened between 1800 and 1950 resulting in multiple authorship patterns, which complicated the process of identification. He elaborated on scientometric analysis concerned with identifying the dimensions of science and its applications in the assessment of published literature. He further mentioned that, Science Citation Index (SCI) was invented to help researchers to find the relevant literature and tools like Scipost and others are changing the system of publication.

### **Invited Talk-3:**

Mr. Shivaram Gowda, Technical Officer, NAL, Bangalore presented his talk on 'Do E-Resources usage metrics correlate with SCI publication growth'. He emphasized on how library metrics can help in measuring the success of library services, justifying the expenses, securing funds, ROI and evidence based data driven decision making. He presented VTU, Belagavi consortium study, which elaborated on correlation between download Metrics and SCI publications. For this study, he informed that, comparison of downloads V/s publications V/s reference were compared using Scopus database and found a correlation exists between downloads and number of publications..

### **Papers presented:**

Ms Priyank Bose in her paper on 'Role of social network in scholarly research' discussed about usage of social networks in scholarly research, especially in social sciences.

### **Technical Session-VI:**

The session was chaired by Dr. S.M. Pujar, Chief Librarian, IGIDR, Mumbai. The session had two invited talks and four papers.

### **Invited Talk-1:**

Dr. S.K. Savanur, presented his talk on 'Zipf's law in governance'. He elaborated on application of Zipf's law in the governance of different cities and states of India. He further mentioned that, it helps in tracing back the causes of certain seemingly unrelated events, so that successful decisions can be applied in other suitable situations. According to him, size of a city is not determined by area, but by population and Zipf's law would help in determining the rank of city based on the size of population.

### **Invited Talk-2:**

Dr. V.M. Bankapur, Associate Professor and Head, DLIS, Rani Chennamma University, Belagavi, presented his talk on 'Obsolescence study of agricultural science literature.' He discussed about citation analysis of agricultural science literature with reference doctoral dissertations submitted to University of Agricultural Sciences (UAS), Dharwad to determine the obsolescence rate.

### **Paper presentations:**

Mr. Prakash Kumbar in his joint paper on 'Scientometric dimension of research in chemistry' discussed about scientometric analysis of Chemistry literature with specific reference to University of Mysore.

Mr. E.R. Prakash in his joint paper on 'Mega-collaborated publications and their influence on scientometric profiles of research institutions' pointed out that, problems associated with mega-

authored paper in citation analysis by giving an example of a paper published in Nature having 5124 authors.

Dr. S.B. Patil in his joint paper on 'Quantitative analysis of doctoral research at Karnatak University, Dharwad (1951-2018) presented citation analysis of doctoral theses submitted to Karnatak University, Dharwad.

Mr. Kavi Uppreti, in his paper on 'Bibliometric analysis and visualization of literature output on plagiarism' discussed about citation analysis of literature on plagiarism.

There was presentation from one of the Even Partners - M/s Creative Books and Periodicals, Mumbai.

### **Best Paper Award:**

To recognize and encourage the contribution of young minds, it is the custom of IOS to award best paper award which was given to three papers. The award includes a certificate and cash prize.

The first best paper award was given to Mr. E.R. Prakash and Mr Ganesh Surwase for their paper 'Mega-collaborated publications and their influence on scientometric profiles of research institutions'.

The second prize was given to Mr. Nilesh Hande for his paper 'Webometrics study of websites of universities: A Study with specific reference to the Maharashtra State'; and

The third prize was given to Ms. Rupali Kumbhar and Dr. P.G. Tadasad for their paper 'ICT components in MLISc curriculum in universities of Karnataka State'.

### **Valedictory:**

Two days eventful sessions ended with valedictory function. The Chief Guest for the function was Prof. P.V. Konnur, presided over by Prof. S.L. Sangam. The others on the dias were Dr. G. Mahesh, Director, IOS-2019 conference, Dr. S.M. Pujar, Rapporteur General and Dr. Satish Munnolli, Organizing Secretary. Dr. Pujar gave a full account of the conference in the form of conference report, Dr. P.V. Konnur delivered his valedictory address, Prof. S.L. Sangam gave his presidential remarks and Dr. Munnolli conveyed vote of thanks.

We take this opportunity to thank, the ACTREC, its Directors and other authorities for joining hands with IOS to host the 8<sup>th</sup> IOS conference at ACTREC, Navi Mumbai. We take this opportunity to thank Dr. Satish Munnolli and his team for their meticulous planning, efforts in organizing this event. We also would like thank all the Chairs, invited speakers and delegates and event partners for making this event a successful one.



The two day national conference and a one day pre-conference workshop on ‘Academic Integrity in Research: Tools and Techniques’ had a participation of over 105 delegates including keynote speaker, invited speakers, experts, industry partners and conference delegates. The invitation to conference papers received a very good response and the editorial shortlisted 33 papers for publishing in the proceedings volume. The full text papers submitted for the conference on various themes and subthemes were brought as a conference volume with ISBN and has been distributed to all the participants. In all, the event was a great success and participants carried away a plenty of thoughts on Open access, Plan S, changing landscape of publishing models, importance of metrics in academic institutes, research evaluation methods, role of social networks in enhancing the research impact and measure, research visualization tools and many more.

The organizing team profusely thanks the authorities of ACTREC for providing all the requisite permissions, support and facilities to conduct the three days event with a grand success. The organizing team thanks all the invited speakers for accepting the invitation and sharing their thoughts on the conference theme, session Chairs for conducting the sessions, and all the delegates who actively participated and presented their experiences and findings of their studies.