

CONFERENCE PAPERS

Oral Presentation

ICDL 2019

INTERNATIONAL CONFERENCE ON DIGITAL LANDSCAPE

DIGITAL TRANSFORMATION FOR AN AGILE ENVIRONMENT

November 6–8, 2019 | New Delhi

Organizer



THE ENERGY AND
RESOURCES INSTITUTE

Creating Innovative Solutions for a Sustainable Future

Editors

Dr P K Bhattacharya
Dr Shantanu Ganguly
Dr Projes Roy
Ms Pallavi Shukla

ICDL 2019 MOBILE APP



DOWNLOAD

Google Play Store: <https://play.google.com/store/apps/details?id=com.teri.icdl2019>

Apple Store: <https://apps.apple.com/us/app/icdl-2019/id1483451521>

When you download the app, you will be able to:

- View conference webcasting
- Access the conference schedule and easily customize your personal schedule
- Take part in the Opinion Polls during sessions
- Quickly find session descriptions and locations
- Know about the speakers and schedule meetings with them
- Develop network with speakers and others delegates



Tweet using ICDL Hashtags

#ICDL2019

#ActDigitally

#DigitalTransformation



ICDL 2019

International Conference on Digital Landscape
Digital Transformation for an Agile Environment

November 6-8, 2019 | New Delhi

CONFERENCE PAPERS

ORAL PRESENTATION

EDITORIAL BOARD

Conference Proceedings

T P Sankar, TERI
Vijay Vikram S Parihar, TERI
Reeta Sharma, TERI
R A Maningdoula Thangal, TERI
Saloni Priya, TERI
Ms Mithu Dey, TERI
Jolly Koshy, TERI
Anupama Jauhry, TERI

Editorial Assistance

Praveen Bakshi, TERI
Swapan Kumar Das, TERI
Muskaan Johri, TERI
Sudeep Pawar, TERI
Rajiv Sharma, TERI
Aman Sachdeva, TERI



ICDL 2019

International Conference on Digital Landscape
Digital Transformation for an Agile Environment

November 6-8, 2019 | New Delhi

CONFERENCE PAPERS

ORAL PRESENTATION



Partners



Knowledge Partners



© The Energy and Resources Institute, 2019

No part of this publication can be reproduced in any form or by any means without the prior permission of the publisher.

Note

The papers included in this publication have been directly reproduced, with minimum editorial intervention, from the files sent by the respective authors. This publication includes papers received by the organizers up to November 2019.

ISBN : 978-81-7993-698-6



Published by

TERI
Darbari Seth Block
IHC Complex, Lodhi Road
New Delhi – 110 003
India

For copies, please contact

TERI Press
The Energy and Resources Institute
Darbari Seth Block
IHC Complex, Lodhi Road
New Delhi – 110 003
India

Tel. 2468 2100 or 2468 2111
E-mail teripress@teri.res.in
Fax 2468 2144 or 2468 2145
Web www.teriin.org
India +91 • Delhi (0) 11

Printed in India

Pre-Conference Proceedings Sponsors



Defence Scientific Information and Documentation Centre, Defence
Research & Development Organisation, Government of India



Government of India
Ministry of Science and Technology
Department of Scientific and Industrial Research



Ministry of Culture
Government of India



Raja Ram Mohun Roy Library Foundation



Council of Scientific and Industrial Research
Government of India



Indian National Science Academy

ICDL 2019 Organizer and Sponsors

Partners

- Bio-Resources Development Centre
- Defence Research & Development Organisation, Government of India
- Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India
- Ministry of Culture, Government of India
- Ministry of Electronics and Information Technology, Government of India
- North Eastern Council, Government of India
- NITI Aayog, Government of India
- Raja Rammohun Roy Library Foundation

Knowledge Partner

- Goethe-Institut
- Indian Library Association (ILA)
- International Federation of Library Associations and Institutions (IFLA), Asia and Oceania Section
- Prasar Bharati
- Shaheed Rajguru College of Applied Science for Women, University of Delhi
- Special Libraries Association, Asian Chapter
- Tata Consultancy Services

Associates

- American Center New Delhi
- Commonwealth Education Media Centre for Asia (CEMCA)
- Council of Scientific and Industrial Research (CSIR)
- Indian National Science Academy
- United Nations Educational, Scientific and Cultural Organization (UNESCO)

Platinum Sponsor

- Balani Group of Companies

Thematic Partners

- Elsevier
- International Water Association
- National Digital Library of India (NDLI)
- SpringerNature

CONTENTS IN BRIEF

Foreword

Message from Director General

Preface

ICDL 2019 Conference Committee

Keynote Speech

Invited Papers

Guest Papers

Contributed Papers

- 1. Digital Library Development**
- 2. Digital Library Standards and Policy**
- 3. Information Retrieval**
- 4. Digital Library Services and Case Studies**
- 5. Ontology, Interoperability and Semantic Web**
- 6. Social Media Applications in Knowledge organizations**
- 7. Open Access**
- 8. Data Mining and Management**
- 9. Multi-linguality & interoperability**
- 10. E-Learning and MOOCs**
- 11. Digital Library & Service Innovation**
- 12. Mobile Applications and Cloud Computing**
- 13. Research Data Management**
- 14. Blended Learning in Education**
- 15. Open Data & Open innovation**
- 16. Emerging Trends in Libraries**
- 17. Digital Publishing & Marketing**
- 18. Knowledge Management Applications in Libraries**

CONTENTS IN DETAIL

Foreword ...xvii

Nitin Desai

Message from Director General ...xix

Ajay Mathur

Preface ...xxi

P K Bhattacharya and Shantanu Ganguly

ICDL 2019 Conference Committee ...xxiii

Keynote Speech...3

Nikhil Seth

Invited Papers

Smart Machines...11

Prakash Ambwani

Facilitating FAIR data sharing in Dataverse Repositories....12

Sonia Barbosa

Evolving Roles of Libraries and Librarians to meet the 21st Century Challenges...13

Dilara Begum

Open Data Behind Bars – Does the Unfamiliarity with Data Protection Regulations Prevent the Publication of Research Data?...14

Katarzyna Biernacka

Libraries Unlimited Supporting the SDG's in Bangladesh ...18

Kristy Crawford

GDPR Readiness: The TCS Information Resource Centre (IRC) Approach and Experience...20

Dhanashree Date

Libraries in Disaster Management of Bangladesh: A role model for reducing vulnerabilities....21

Md. Nasiruddin Dean

Ontology-Based Process Planning for Manufacturing, Production, and Assembly...37

Benjamin Gernhardt, Tobias Vogel & Matthias Hemmje

New learning environment and Libraries: A Marketing Challenge...65

Dinesh K Gupta

Augmented reality based industrial inspection, maintenance, and repair: Deployments in India, USA and Japan smart factories...66

Ramya Hebbalaguppe

Mobile-based Library Services: Big Ideas in Small Devices...67

Margam Madhusudhan

Big Data and Cloud Computing in Bioinformatics...69

A.K. Mishra

Digital Knowledge Era and the Future of Work: Challenges and the Current Status of JST CyborgCrowd Project...70

Atsuyuki Morishima, Munenari Inoguchi, Keishi Tajima & Itaru Kitahara

Re-Imagining TCS Information Resource Center (IRC) the Business 4.0 way....81

Sanjukta Ray

Innovative Professional Skills and Challenges for 21st Century Academic librarianship in Delhi-NCR...82

Projes Roy

Libraries, Integrity, and the Battle against Untruth...85

Michael Seadle

Tinker and Try - What does the Cologne Public Library have to do with making knowledge cool?....86

Hannelore Vogt

Examining Twitter' Conversation during Indonesians' Students Protests: User and visibility analytics....87

Stevanus Wisnu Wijaya

The Past, Present, and the Future of Information literacy in the context of the 4th Industrial Revolution...90

Johnny Yuen

The Contemporary Library's Role in Supporting Active, Informed Citizens...100

Sarah Ziebell

2. Digital Library Standards and Policy

Open Standards and Protocols for Sustainable Digitization, Preservation and Retrieval...247

Akhilak Ahmad and Swadesh Sharma

Design and development of Digital archives for bio-bibliographic Representation...256

Meera B M and Vani Hiremath

3. Information Retrieval

Digital Content Research and Migration: a case study with biggest reality company of India (DLF)...269

Pravin Kr Choudhary and Mahesh Mathur, Rupesh Mane

An analytical study of level of awareness of patrons of information services provided via information communication technology in university library and information centres of Delhi and NCR...276

Rajni Jindal, Javed Khan and Projes Roy

E-Resource Selection Process at Libraries in Bangladesh: A Study...304

Mitul Nasiruddin, Md. Nazmul Islam and Sugoto Chakma

4. Digital Library Services and Case Studies

Implementation and Application of Six Sigma in Libraries...319

Purbi Dey Kanungo

Global Challenges for Library Consortium: An Analytical View with DeLCON Consortium...331

D. D. Lal

Service quality: A survey...348

Priya Vaidya, Azra Aftab and P. M. Naushad Ali

A Study on student utilization of Silent and Independent Library study space in Ansal University Gurugram...357

Upasana Yadav

5. Ontology, Interoperability and Semantic Web

Research data management services in Technical University libraries of Odisha: a study...375

Sanghamitra Dalbehera

Study on Design of Ontology Approach for Improving Record Keeping Systems in a Document Management System...392

Alok Nikhil Jha and Pravin Kumar Choudhary

Biometric authentication system in academic libraries: advantages, disadvantages and prospects...403

R Vijesh and S. Venkatesh

6. Social Media Applications in Knowledge organizations

Community Evolution in the Digital Space and Creation of Social Information Capital: A Case Study of Research Scholars of University of North Bengal...415

Saptarshi Ghosh

Social Networking Sites for Learning: Use of Facebook by the Library and Information Science Students of National University...428

Anita Helen

Assessment of the utilization of social media towards information literacy by faculty of engineering students Kebbi State University of Science Technology, Aliero...443

Sahabi Abubakar Kaoje

Academic Social Networking Sites: An Assessment...454

Mudasir Khazer, Iram Mukhtar Mahajan, Uzma Qadri, Huma Shafiq

7. Open Access

Open Access Tracking Project How it work?...465

Vrushali Dandawate

Faculty Perception, Adoption and Usage of Open Access Scholarly Publishing: Bibliometric Analysis from Last 10 years in Academia...472

Rajesh Kumar Das and Rumana Rahman



Mohammad Nazim and Sana Zia

8. Data Mining and Management

Understanding the “Digital Divide” in India: A Data Mining Approach...499

Sachin Garg

Knowledge Economy and role of Libraries in Data Management...509

Arup Kumar Ghosh

Census of India Database: An Exposition for LIS Professionals...515

P R Goswami

Research Data Management (RDM): Demystifying the notion about Data Librarians...528

Tamanna Hossain, Dilara Begum, Md. Hasinul Elahi, Abdur Rahaman Sumon

9. Multi-linguality & interoperability

Archiving Endangered Mundā Languages in a Digital Library...543

Satyabrata Acharya, Debarshi Kumar Sanyal, Jayeeta Mazumdar and Partha Pratim Das

10 E-Learning and MOOCs

Information Commons - The Emerging Third Place: A case study on the students' perception of an ideal learning environment at the Indian Institute of Management Lucknow-Noida Campus ...567

Kavita Chaddha, Uma Kanjilal

Learning Tools Interoperability: Paradigm shift of Open Learning ...598

Barnali Roy Choudhury, Rupinder Singh

Reinforcing Health Sciences Librarianship Education in India: Meeting Global Standards...611

Sangeeta Narang

A Systematic Review of Literature on Massive Open Online Courses (MOOCs)...620

Faizul Nisha and Sudhanshu Bhushan

11. Digital Library & Service Innovation

Big Data: Opportunities, Issues and Challenges before the Libraries...635

Sufian Ahmad

Design and Development of Archive on Homoeopathy: An Initiative by CCRH...639

Meenakshi Bhatia

Use of Web 2.0 Tools by Visually Impaired Students at Aligarh Muslim University, Aligarh: A Study...645

Sufia Khowaja and Nishat Fatima

Digital Library Services to turn the existing problems: its solution and the plan of action need to be taken. Bangladesh perspectives...656

Zehad Rahman

12. Mobile Applications and Cloud Computing

Rejuvenate Library Service with Mobile Apps: Opportunities for Library Users...691

Sudip Bhattacharjee and Sourav Malakar

Application of mobile augmented reality (AR) in libraries: a study of seminar library of DLIS, AMU Aligarh...697

Mohd. Firoz, Muzamil Mushtaq

Cloud Computing: Path Breaking Initiatives in Present Libraries..707

Vishakha and R. Sarangapani

13. Research Data Management

□ □ □ □ □ □ □ □ □ □ □ □ □ □ **eElites: Comparative Study of Citation Laureates and Fields Medallists...725**

Raashida Amin, Arshia Ayoub and Zahid Ashraf Wani

Text Analysis of ETDs in ProQuest Dissertations and Theses (PQDT) Global (2016-2018)...734

Manika Lamba, Margam Madhusudhan

Evaluation of Select International Digital Libraries Websites: A Webometric Analysis...746

Sadaf Zia and Muzamil Mushtaq

14. Blended Learning in Education

Integrating MOOCs in Blended Learning for New Generation of Learners...761

D S Thakur

15. Open Data & Open innovation

Embracing Open Access: Practices and perception of LIS Professionals in Bangladesh...773

Sabiha Sultana and Maher Tasnim

Institutional Repositories Movement in India: Tips for Sustaining in Challenging Times..786

Rajeev Vij

16. Emerging Trends in Libraries

Attracting the Post-Millennials to the Library: Innovative Practices of an Institute...803

Madhu Dogra , Raj Changrani and Birendra Jha

Innovative technological tools in 21st Century: Acme trends in Libraries with Particular Reference to Web 2.0 and Web 3.0 Tools...807

Mudasir Khazer and Sumaira Jan

Green Library: an emerging concept...818

Atin Nandi and B Sutradhar

Building NextGen Discovery Service Using VuFind at Central Library...830

Samrat Guha Roy and B. Sutradhar

Implementation of DESIDOC Discovery Service: Powered by VuFind...840

Anil Kumar Singh, Vinod Kumar Awasare, Tapeshe Sinha, Nishant Kumar and Dr AlkaSuri

17. Digital Publishing & Marketing

□ □ □ □ Publications and Digital Marketing: DESIDOC's Perspective...859

Dipti Arora

Development of Human Resource Management System in DESIDOC...866

Alka Bansal, Sumati Sharma, Rajiv Vij, and Alka Suri

18. Knowledge Management Applications in Libraries

□ □ □ □ □ ectoring Knowledge Sharing Practices in Public and Private Universities..877

Miysha Khanam

Author Index... 889