

International Conference on

# Open and FAIR Data Ecosystem Principles, Policies, and Platforms

11th - 13th September 2023  
IIC, New Delhi

**Mentors**  
Amb. Shyam Saran, President, IIC  
Prof. Ajit Kembhavi, PI, PKC  
Prof. O. P. Kalra, Vice Chancellor, SGT University

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## ABOUT THE CONFERENCE

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Rapidly evolving digital technologies are transforming the way in which research is conducted globally, with data science becoming the most important element across all domains. But the extensive use of data science brings its own challenges. A major issue in data science is in the analysis of vast quantities of heterogeneous data, both in formats and content. To mitigate this and numerous other anticipated issues, nations, regions, and disciplines have begun to build research infrastructures to aid data management, stewardship, and analysis. Open science policies and practices have further galvanized these developments by various key stakeholders. Understanding these policies, adapting them to domain-specific and regional requirements and revising them with changing technologies and aspirations, and developing suitable practices are crucial for realising the full potential of data analysis.

This conference will provide a forum for sharing expert insights on the above issues and enable intense community interaction to better understand global trends. Conclusions from the meeting should be useful in identifying existing impediments in some of the major socio-economically relevant disciplines, and mobilising efforts for better data harnessing and data capture. Most importantly, the meeting should help significantly to chart a roadmap, suitable for the Indian ecosystem, to guide the further course of action on Open Data.

The themes included in the conference will broadly focus on open science and open data, FAIR, research data management, data ethics, data licensing, data stewardship, data science education and training, data research infrastructures and data platforms.

A special reference will be made to four verticals: National Health, Agri-Tech, Ocean & Atmospheric Science, and Digital Humanities, which includes Social Sciences. The core issues of data policy, practices & ethics and infrastructure would find a common thread across verticals to be dealt with as a separate session



## NATIONAL HEALTH

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India's healthcare sector is highly dependent on data-driven decision making. While it has great scope for further growth and expansion, it is currently hampered by inadequate policies. It would help to take appropriate measures urgently, particularly in areas of health data management and exchange, with a focus on patient data privacy and security, for future sustainability.



## AGRI-TECH

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The agri-tech business in India is expected to grow significantly in the coming years as it is driven by rising food demand and a need to improve agricultural productivity. Data science and machine learning offer valuable support to the industry as there exist possibilities for extensive data analysis. The important challenges in the field can be better addressed by learning from successful models existing in global ecosystems.



## OCEAN & ATMOSPHERIC SCIENCE

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Recent initiatives like Blue Economy have given a great boost to research and innovation on marine resources. Having a vast coastline (7500 km), India itself has several research institutes for ocean sciences and a significant population thriving on ocean-based industries like fisheries, shipping, etc. These establishments are heavily dependent on data for routine operations and produce significant data sets on their own. Managing the enormous data sets coming from global research and business, and using them for addressing challenging problems will require advanced applications of data science. This meeting will help in bringing experts together, to discuss and perhaps resolve some of these key impediments.



## DIGITAL HUMANITIES

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Technological advancements are rapidly remodelling Digital Humanities, which includes disciplines like social sciences, and cultural & natural heritage. Digital methodologies and platforms foster interdisciplinary collaboration to resolve complex issues and/or develop innovative solutions while AI/ML-mediated proficient analysis provides better insights into social phenomena. In studies of cultural & natural heritage, data science has led to many positive changes to promote newer avenues of research. However, a wide chasm exists in the field arising from highly heterogeneous sources of data in terms of both formats and contents. This conference aims to provide insights to researchers and stakeholders on how to organise and resolve data using digital technology. It will help formulate data capture and storage methods that are compatible with multiple sources and to develop more effective methods for preservation, vigilant maintenance, and exhibition.



## DATA POLICY, PRACTICES, ETHICS & INFRASTRUCTURE

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As the evolving digital technologies are transforming the way research is conducted globally, the landscape of data science has been changing correspondingly, adapting to the challenges. Today our major challenges reside in the analysis of vast quantities of heterogeneous data from multiple sources. In recent times, many countries, regions, and domains have developed research infrastructures to assist with data management, stewardship, and analysis. Importantly, Open Science policies and practices have further galvanized these developments by various key stakeholders by providing a congenial environment that nurtures systematic needful reforms.

These principles and supporting practices seek to accelerate the process and unlock the potential of data analysis at the scale of computation and technology. This session would thus focus on sub-themes of particular interest related to open science and open data, FAIR data, research data management, data ethics, data licensing, data stewardship, data science education and training, data research infrastructures, and data platforms.

## INTERNATIONAL ADVISORY COMMITTEE\*

**Chair:** Prof. Ajit Kembhavi

Name	Country	Designation
Dr. Anurag Aacharya	India	Distinguished Engineer, Google scholar developer, Google
Prof. Toshihiro Ashino	Japan	Professor at Tokyo University, Member of Science Council of Japan (SCJ) & Secretary of the International Data Committee & the chairperson of the CODATA Sub-Committee of SCJ from 2018
Dr. J. K. Bajaj	India	Chairman, Indian Council of Social Science Research
Dr. Vint Cerf	USA	VP, Chief Internet Evangelist, Google
Dr. Sindura Ganapathi	India	Visiting PSA Fellow Office of the Principal Scientific adviser to the Govt of India
Prof. Arianna Becerril García	South America	Chair, AmeliCA, Open Knowledge for Latin America & the Global South, Univ. of Mexico, Mexico
Dr. Simon Hodson	France	Executive Director, CODATA International
Prof. E D Jemmis	India	Honorary and Emeritus Professors, Theoretical Chemistry, Indian Institute of Science, Bangalore
Dr. (Mrs.) N. Kalaiselvi	India	Director General, Council of Scientific & Industrial Research
Prof. Ajit Kembhavi	India	Principal Investigator of the Pune Knowledge Cluster, Chair, CODATA National Committee, Executive Member, CODATA International
Prof. Waheeda Khan	India	Faculty of Behavioural Sciences, SGT University, Gurugram
Dr. Tummala Srinivasa Kumar	India	Director, Indian National Center for Ocean Information Services (INCOIS), Hyderabad
Dr. Mrityunjay Mohapatra	India	Director General, India Meteorological Department, New Delhi
Prof. Virginia Murray	UK	Head of Global Disaster Risk Reduction, UK Health Security Agency and Co-Chair the IRDR Data project
Dr. Himanshu Pathak	India	Director General, Indian Council of Agricultural Research
Dr. M Ravichandran	India	Secretary, Ministry of Earth Sciences
Dr. Alena Rybkina	Russia	Chief of the Innovation Technologies Sector of the Geophysical Centre of the Russian Academy of Sciences (GC RAS)
Dr. Anil Srivastava	USA	Open Health Systems Laboratory, USA
Prof. Rakesh Kumar Sharma	India	Pro-Chancellor, SGT University, Gurugram
Shri K. N. Shrivastava	India	Director, India International Centre, New Delhi
Prof. Lakhwinder Singh	India	Dean, Faculty of Science, SGT University, Gurugram
Dr. Neeta Verma	India	Former DG, National Informatics Centre, New Delhi

## CONFERENCE DIRECTOR

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Dr. Usha M. Munshi, IIC, New Delhi

## ORGANISING SECRETARY

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Prof. Prabir G. Dastidar, SGT University, Gurugram

Dr. Priya Nagaraj, PKC, Pune

## PROGRAM COMMITTEE

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Name	Organisation
Dr. Jagdish Arora	National Board of Accreditation (NBA), New Delhi
Prof. Prabir G. Dastidar	SGT University, Gurugram
Dr. Uday Bhaskar	Scientist, Indian National Center for Ocean Information Services (INCOIS), Hyderabad.
Shri Rajesh Gera	NIC, New Delhi
Ms. Namita Gupta	Adviser/Scientist G, Knowledge Involvement in Research Advancement through Nurturing (KIRAN), Division, Department of Science & Technology (DST)
Shri Gopal Iyenger	Advisor, MoES, New Delhi
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Dr. Sachidanand Joshi	IGNCA, New Delhi
Prof. Ajit Kembhavi	Principal Investigator, PKC, Pune
Prof. Azizuddin Khan	Psychophysiology Laboratory, Indian Institute of Technology (IIT), Bombay
Dr. Vivek Kumar	S&T Office, New Delhi
Dr. G. Mahesh	CSIR, New Delhi
Dr. Usha Mujoo Munshi	IIC, New Delhi
Dr. Priya Nagaraj	PKC, Pune
Dr. DR Pattnaik	Scientist, India Meteorological Department (IMD), New Delhi
Shri N.V. Sathyanarayana	Chairman & MD, Informatics (India) Ltd., Bengaluru
Shri G. Srinivasan	Director, Department of Science & Technology, India
Prof. (Dr) Reshu Sanan	Faculty of Dental Sciences, SGT University

## NATIONAL ORGANISING COMMITTEE

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### Planning and Execution

Prof. Ajit Kembhavi

Dr. Usha M. Munshi

Prof. Prabir G. Dastidar

### Secretary Planning and Execution

Ms. Prachi Pasalkar Jagadale

### Presentation Management

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### Publication and Website Production Management

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Dr. Ritika Ganguly

Ms. Prachi Pasalkar Jagadale

## SCOPE OF THE CONFERENCE

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### Plenary lectures:

- National Health
- Agri-Tech
- Ocean and Atmospheric Science
- Digital Humanities
- Data Policy, Practices, Ethics & Infrastructure

### Breakout Sessions on:

#### Implications and Implementation of open data policies

- Cooperation and management for research data policies at international, national and institutional levels
- Incentives and metrics for research-oriented data sets/ data licensing and Database copyrights /Data ethics
- Responsible data collection practices
- Data policies towards the next-generation open science community

#### Business models for Open Science, FAIR data, research infrastructures and data stewardship

- Case studies highlighting any type of FAIR metrics or certifications.
- Models that offer insight into data FAIRification for integration and FAIR-linking of public data with proprietary data in public-private partnerships (PPPs)
- Examples of current business models that offer data stewardship solutions with advantages for data-intensive sectors
- Examples of current business models exemplifying breaking down barriers for data reuse and offering incentives to get over market failures

#### Open Data

- Government data openness
- Data influenced policy decisions
- Academic Data generation and availability beyond publications

#### Standards and disciplinary practices in data applications

- Practices of FAIR data, interoperability, data integration in multi-disciplinary research

#### Data-driven practices supporting core global issues

- Data influence in SDGs (Sustainable Development Goals)/ disaster risk reduction/ resilient cities/ biodiversity/ climate change adaptation/ agriculture/ hydrology/ research areas in green energy

#### Data-driven scientific discoveries and decision-making

- Explorations in data to evidence
- Initiatives in data sharing/ dissemination in India
  1. Status of data science policy in India (Current challenges/ reforms/ facilitating entities)
  2. Putting down structure for Future of data sharing method and standards that are relevant within and outside the country.

#### Data Science Education and Training

- Initiatives/ reforms/ openings

#### Building capacity for harnessing digitalization

- Increasing and creating avenues for Data Science professionals for the enrichment and/or retention of skilled workforce for industry and academia.

#### Data cleaning and other Standard Data practises relevant to BIG DATA

- Understanding challenges in handling Big-data; from collecting to storage and analysis & repurposing of data. New insights from population data from different demographic regions to caveats on a global scale.



## INVITED SPEAKERS

Name	Country	Designation
Dr. Suchith Anand	UK	Programmes and Outreach Director, Ethical Data Initiative (EDI), UK
Prof. Amit Apte	India	Department of Data Science, IISER Pune, India
Dr. Philip E. Bourne	USA	Stephenson Founding Dean of the School of Data Science, University of Virginia, USA
Dr. Vint Cerf	USA	VP, Chief Internet Evangelist, Google
Prof. Shantanu Chaudhury	India	Director, IIT, Jodhpur, India
Dr. Chuck Cook	USA	Global Biodata Coalition
Prof. Partha Pratim Das	India	Professor of Computer Science, Ashoka University, New Delhi
Dr. Bapon Fakhruddin	New Zealand	Water Sector Lead, Division of Mitigation and Adaptation, Green Climate Fund
Dr. Sindura Ganapathi	India	PSA Fellow, Office of the Principal Scientific Adviser to the GoI, India
Dr. Jay Greenfield	UK	Consultant, CODATA, UK
Dr. Amarnath Gupta	USA	San Diego Supercomputer Center (SDSC), University of California San Diego, USA
Dr. Hans-Eckhardt Hagen	USA	Global Biodata Coalition
Mr. Priyank Hirani	India	Associate Director, Capacity Accelerator Network (CAN) at data.org, India
Dr. Simon Hodson	France	Executive Director, CODATA International, Paris, France
Prof. P. Vigneswara Illavarasan	India	Senior Scientist, Tata Consultancy Services, Pune, India
Dr. Sridevi Jade	India	Head & Outstanding Scientist, CSIR Fourth Paradigm Institute (CSIR-4PI), India
Mr. Arun Jadhav	India	Manager-Digital Development, CABI, India
Prof. Partha Majumder	India	National Science Chair, SERB, Govt. of India and Emeritus Professor, Indian Statistical Institute, Kolkata, India

## INVITED SPEAKERS

Name	Country	Designation
Dr. Suresh K. Malhotra	India	Director, ICAR–Directorate of Knowledge Management in Agriculture, India
Mr. Gallant Lazarus Matizirofa	South Africa	Deputy Director, Department of Library Services, University of Pretoria, Pretoria, South Africa
Dr. Debasisa Mohanty	India	Director, National Institute of Immunology, Department of Biotechnology, Govt. of India, New Delhi, India
Dr. M. Mohapatra	India	Director General, Indian Meteorological Department (IMD), India
Prof. Barend Mons	France	President, CODATA International, France, Paris & Professor in Biosemantics at the LUMC, board member of the Leiden Centre of Data Science
Prof. Virginia Murray	UK	Head of Global Disaster Risk Reduction, UK Health Security Agency and Co–Chair, IRDR Data project, UK
Dr. Bhanu R Neupane	France	Programme Specialist, UNESCO, Paris, France
Dr. Uma Shankar Pandey	India	Head, Department of Journalism and Mass Communication, Surendranath College for Women, University of Calcutta, Kolkata, India
Dr. Stephen Passmore	UK	Visiting Lecturer, UCL, UK
Prof. Avik Sarkar	India	Faculty at Indian School of Business (ISB), Mohali, India
Dr. Daisy Selematsela	South Africa	Professor of Practice: Information & Knowledge Management University of Johannesburg, Johannesburg, South Africa
Dr. Belinda Seto	USA	Deputy Director, Office of Data Science Strategy, National Institutes of Health, USA
Dr. Renu Swarup	India	Former Secretary, Department of Biotechnology (DBT), Govt. of India
Dr. Neeta Verma	India	Former DG, National Informatics Centre, New Delhi, India

## CONFERENCE SCHEDULE

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- A Special roundtable on “Digital Twins” will be held on 10th September 2023 from 10.00 – 15.00 hrs
- People registering for the conference can participate in the “Digital Twins” roundtable by communicating their interest to attend this session  
**No separate registration fee is required for this session**
- The schedule planned for the three-day event includes Plenary sessions, Breakout sessions, and Panel discussions
- The last day of the conference program will include an open house and a concluding session.
- Poster sessions are planned for interested candidates on all three days

## CONFERENCE VENUE

India International Centre (IIC), New Delhi

## PARTICIPATION

- The conference will be open to all for participation with prior registration. Presentations will be made by invited speakers only. Practitioners, advocates, and enthusiasts of Open Data and Open Science will be encouraged to submit their abstracts to get invited
- Submission of abstracts for poster sessions opened tentatively on 1<sup>st</sup> 2023 and shall close by 25<sup>th</sup> August 2023. (The topics for the poster session could be any but not limited to the above indicated themes in Open Data)

## ABOUT THE ORGANISERS

### The India International Centre (IIC)



A cultural and intellectual center located in New Delhi, India. It aims to promote greater understanding and cooperation between India and other countries and serves as a platform for the exchange of ideas and knowledge on a wide range of topics. IIC stands for a vision that looks at India as a place where it is possible to initiate dialogues in an atmosphere of amity and understanding. The Centre's dedication to the values of liberal humanism is best reflected in its activities and calendar of events. These cover a wide range, from lectures, seminars, panel discussions, international and national conferences to a variety of cultural events of music, cinema, performing and visual arts, both classical and folk.

### Shree Guru Gobind Singh Tricentenary (SGT) University, Gurugram (SGT University)



A private university located in Gurugram, Haryana, India. It offers undergraduate and postgraduate programs in a variety of fields, including engineering, management, law, medicine, and more. The university is known for its strong academic programs, cutting-edge research facilities, and commitment to student success. It provides students with a supportive and challenging learning environment and offers opportunities for professional growth and personal development.

### The Pune Knowledge Cluster



Established by the Office of Principal Scientific Adviser, Govt. Of India in 2020 under The City Knowledge and Innovation Cluster Initiative (CKIC). The goal of the PKC is to create a collaborative and interdisciplinary environment where ideas, knowledge, and expertise can be shared and leveraged to drive innovation and economic growth. This is achieved through partnerships between the different institutions, organizations, and businesses in the cluster, and through the development of programs and initiatives that support research, education, and entrepreneurship.

### Indian National Science Academy (INSA)



INSA acts as a resource pool of knowledge, promotes Science in India, and harnesses scientific knowledge for National welfare, while identifying and nurturing scientific talent in the country. It acts as an interface and represents the Indian Science and Scientists, globally on behalf of Government of India. INSA is an adhering body to the International Science Council (ISC) on behalf of the Government of India. The National Committee-CODATA appointed by INSA officially represents India in the activities of CODATA. The National Committee promotes the responsible and sustainable use of scientific data and information. It is focused on advancing the frontiers of data-driven research and innovation that support policies, practices, and infrastructure for decision-making. The National Committee-CODATA also plays an active role in promoting international collaboration and partnerships. It works closely with government agencies, academic institutions, research organizations, and industry.

# CONFERENCE REGISTRATION AND CHARGES DETAILS

## Registration Charges before 15th August 2023

Participants	Domestic	International
Faculty and Professionals	₹ 5000	\$150
Students	₹ 3000	\$100

## Registration Charges after 15th August 2023

Participants	Domestic	International
Faculty and Professionals	₹ 6000	\$200
Students	₹ 4000	\$150

### REACH US AT

Email: [openfairdata.conf@pkc.org.in](mailto:openfairdata.conf@pkc.org.in)

Whatsapp:

Prof. Prabir Ghosh Dastidar +91 98685 43999

Dr. Rajeev Mishra + 91 9818839921



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