

# CALL FOR PAPERS

## 21<sup>st</sup> International Conference on Statistical Sciences:

“Mobilizing Data Science and Big Data to achieve the SDGs”

to be held on  
**October 16-18, 2024**

at  
Dow University of Health Sciences  
and  
Baqai Medical University  
Karachi (Pakistan)

*Jointly organized by:*



**Dow University of Health Sciences**

Karachi, Pakistan  
Email: [iccs21.karachi@duhs.edu.pk](mailto:iccs21.karachi@duhs.edu.pk)



**Baqai Medical University**

Karachi, Pakistan  
Email: [iccs21.khi@baqai.edu.pk](mailto:iccs21.khi@baqai.edu.pk)



**Islamic Society of Statistical Sciences**

ISOSS House, 44-A, Civic Centre, Sabzazar Scheme, Lahore, Pakistan  
Email: [secretary@isoss.net](mailto:secretary@isoss.net) URL: [www.isoss.net](http://www.isoss.net)

*In collaboration with*



# 21<sup>st</sup> International Conference on Statistical Sciences:

## Islamic Society of Statistical Sciences (ISOSS)

The Islamic Countries Society of Statistical Sciences (ISOSS) was established during the First Islamic Countries Conference on Statistical Sciences (ICCS-I) held at Lahore on August 27-31, 1988 with the following main objectives:

- ❖ To bring together researchers and practitioners across discipline in general and statistical sciences, in particular from all over the world, with major focus on Islamic Countries through mutual exchange program;
- ❖ To promote the application of statistical sciences including computer and information technology for the development of Islamic Countries;
- ❖ To promote the use of computer technology, robotics and artificial intelligence in Islamic Countries; and
- ❖ To establish training centers to promote humanity and statistical education.

## Objective of the Conference

The primary objective of this conference is to convene leading experts, professionals related to statistical sciences, and representatives from academia and government to explore and discuss the research and innovation associated with data science and big data in advancing the United Nations Sustainable Development Goals (SDGs). The conference aims to:

1. **Showcase Cutting-edge Research and Applications:**  
Present the latest advancements in data science and big data analytics that are driving progress towards achieving the SDGs, with case studies and real-world examples across various sectors such as health, education, statistical and computer sciences, and economic development.
2. **Facilitate Cross-disciplinary Collaboration:**  
Collaborate with data scientists, policymakers, and domain experts to identify and solve pressing global challenges, leveraging the strengths and insights of diverse disciplines and sectors.
3. **Promote Data-driven Policy and Decision Making:**  
Highlight the importance of data-driven approaches in policy formulation and implementation, demonstrating how big data can inform more effective and equitable decisions at local, national, and global levels.
4. **Address Ethical and Privacy Concerns:**  
Discuss the ethical implications, data privacy, and security issues associated with big data, emphasizing the need for responsible data management practices to protect individuals and communities.
5. **Identify Future Directions and Challenges:**  
Explore the emerging trends, future directions, and potential challenges in data science and big data, identifying areas where further research and innovation are needed to maximize impact on the SDGs.

The conference seeks to mobilize the global data science community to contribute more effectively to sustainable development by achieving these objectives.

## **Outcome of the Conference**

The outcomes of a statistical conference with the theme "**Mobilizing Data Science and Big Data to Achieve the SDGs**" could be multifaceted and far-reaching. Here are potential outcomes categorized by various impact areas:

### **1. Research and Innovation**

#### **Publication of Cutting-edge Research:**

- Conference proceedings featuring pioneering research papers, case studies, and innovative applications of data science and big data relevant to SDGs.
- Identify novel methodologies and techniques that can be applied to different sectors to enhance sustainable development.

#### **Innovative Applications:**

- Showcasing practical implementations of data science and big data in real-world scenarios, demonstrating their potential in advancing SDGs.
- Development of new tools and platforms that facilitate using big data in monitoring and achieving SDG targets.

### **2. Collaboration and Networking**

#### **Formation of Cross-disciplinary Partnerships:**

- Establishment of new partnerships between researchers, policymakers, industry leaders, and non-governmental organizations (NGOs) to tackle SDG-related challenges.

### **3. Policy and Decision-Making**

#### **Informed Policy Recommendations:**

- Development of policy briefs and recommendations based on data-driven insights presented at the conference, aimed at local, national, and international levels.
- Encouragement of evidence-based policymaking, leading to more effective and equitable solutions for sustainable development.

### **4. Ethical and Social Considerations**

#### **Ethical Guidelines and Standards:**

- Formulation of comprehensive ethical guidelines and standards for using big data in the context of SDGs, ensuring responsible and fair practices.
- Increased awareness and education on ethical issues, data privacy, and security among conference participants and their organizations.

### **5. Future Directions and Challenges**

#### **Identification of Research Priorities:**

- Establishment of a research agenda highlighting critical areas for future investigation and innovation in data science and big data for sustainable development.
- Recognition of emerging trends and potential challenges, guiding future research and funding direction.

#### **Strategic Roadmap for Innovation:**

- Mobilization of resources, including funding and expertise, to support continued innovation and implementation efforts.

### **6. Community and Global Impact**

#### **Global Initiatives and Campaigns:**

- Strengthening of global commitments and actions towards achieving the SDGs through coordinated efforts.

#### **Enhanced Community Engagement:**

- Increased engagement and participation of the global data science community in addressing sustainable development challenges.
- Promotion of public awareness and understanding of the role of data science and big data in achieving the SDGs.

Overall, the conference could be a significant milestone in mobilizing the data science community and other stakeholders to achieve the United Nations Sustainable Development Goals and foster innovation, collaboration, and responsible data practices worldwide.

## **Conference Topics**

1. The transformative potential of data science in addressing global challenges.
2. Frameworks and methodologies for tracking progress towards SDGs.
3. Utilizing data science to improve public health and healthcare delivery.
4. Case studies on disease prediction, health monitoring, and personalized medicine.
5. Data-driven approaches to improving education quality and accessibility.
6. Innovations in educational technology and personalized learning.
7. Analysis of labor markets, economic indicators, and policy impacts.
8. Building effective partnerships between academia, industry, and government.
9. Models and best practices for public-private collaboration.
10. Integrating big data insights into policy formulation and implementation.
11. Establishing governance structures to support data-driven initiatives.
12. Institutional frameworks for managing and utilizing big data effectively.
13. Ethical considerations in data collection, analysis, and application.
14. Best practices for data security and individual privacy protection.
15. The role of AI, machine learning, and IoT in advancing SDGs.
16. Future trends in data science and their potential impact on sustainable development.
17. Identifying barriers to effective use of big data in achieving SDGs.
18. Exploring opportunities for innovation and improvement.
19. Insights from prominent figures in data science, policy, and sustainable development.

## **Instructions to Authors of Research Papers**

All Authors of invited and contributed papers are requested to follow the instructions:

1. Manuscripts should be type-written, paper size 7" x 9" (width x height) and margin Top 0.5", Bottom 1", Left 1" and Right 1" with "Time New Roman" Font size 10. The paper should be divided into sections, numbered by Arabic numerals and with suitable short verbal titles. Pages should be numbered at the bottom. Running titles should also be given.
2. Paragraphs should be indented five spaces.
3. The name and full postal address of each author should be given immediately below the title of the paper along with e-mail.
4. Equations should be centered, with identifying numbers in parentheses.
5. Tables should be inserted in the text as close to the point of reference as possible.
6. Graphs and other numbered figures should be drawn in black Indian ink.
7. References should be indicated in the text by author's name(s) and the year of publication in parentheses. All references should be given alphabetically in APA-6 style.

Please note that contributed papers should not be more than SIX pages.

## Submission of Abstracts:

An Abstract of no more than 500 words can be submitted online at <https://pgs.duhs.edu.pk/oric-abstract-form/>

Last date of Abstract Submission is **September 20, 2024**

Questions or queries may be sent to

- [icss21.karachi@duhs.edu.pk](mailto:icss21.karachi@duhs.edu.pk)
- [isoss21.khi@baqai.edu.pk](mailto:isoss21.khi@baqai.edu.pk)

## Announcement:

Selected papers presented in the Conference may be published in the Special/Regular Issue of Pakistan Journal of Statistics (PJS) AND Journal of Islamic Countries Society of Statistical Sciences (J-ISOSS), after formal evaluation by experts in the area\* (\**Publication charges apply*).

## Participation:

Participants from all scientific and social sciences disciplines are expected to attend the Conference.

## Pre-Conference Workshops (October 14 & 15, 2024)

- Research Grant Writing
- Proposal Writing
- Data Entry & Basic Analysis through SPSS
- Epidemiological Study Designs
- Data Entry & Basic Analysis through R
- Sample Size Calculation through NCSS PASS Software
- EndNote for Referencing
- Power BI and AI used in Textile Management
- Reliability Analysis for Continuous, Ordinal & Nominal Measurements (Kappa, ICC etc.)
- Microsoft Excel
- Qualitative Research

### Registration Fee:

Rs. 1000/- for each workshop

For Workshop Registration please visit:

<https://tinyurl.com/mr2pzt8>

## Important Dates:

Submission of Abstracts of Papers	September 20, 2024
Acceptance of Abstracts	September 27, 2024
Submission of Full-Length Papers	October 12, 2024
Last Date for Registration	October 16, 2024

## Tentative Program

### **Day-1 (Wednesday: October 16, 2024) at Dow University of Health Sciences**

09:30 – 11:00 Hrs	<b>Inauguration Ceremony</b>
11:15 – 11:45 Hrs	Hi-Tea
11:45 – 12:45 Hrs	Session 1: <b>Thematic Lecture Keynote Speech-1</b>
12:45 – 01:45 Hrs	Lunch and Prayer Break
01:45 – 03:00 Hrs (6 presentations)	<b>Contributed Papers</b> Session 2: <b>Statistics 1</b> Session 3: <b>Applied (Sustainable Development Goals and Data Science)</b> Session 4: <b>Applied (Environmental &amp; Space Science-1)</b>
03:00 – 03:30 Hrs	Tea Break
03:30 – 04:45 Hrs (6 presentations in each session)	<b>Contributed Papers</b> Session 5: <b>Statistics-2</b> Session 6: <b>Applied (Biostatistics)</b> Session 7: <b>Applied (Sustainable Development Goals and Information Technology)</b>

### **Day-2 (Thursday: October 17, 2024) at Dow University of Health Sciences**

10:00 – 11:00 Hrs	<b>Keynote speech 2</b>
11:00 – 11:15 Hrs	Tea Break
11:15 – 12:45 Hrs (8 presentations in each session)	<b>Contributed Papers</b> Session 8: <b>Statistics-3</b> Session 9: <b>Applied (Sustainable Development Goals and Health Sciences data)</b> Session 10: <b>Applied (Education Statistics)</b>
12:45 – 01:45 Hrs	Lunch and Prayer Break
01:45 – 02:30 Hrs 02:30 – 03:45 Hrs 6 presentations in each session	<b>Keynote Speech-3</b> Session 11: <b>Applied (Environmental &amp; Space Science-2)</b> Session 12: <b>Applied (Management &amp; Marketing)</b> Session 13: <b>Applied (Economics and Business Statistics)</b>
03:45 – 04:00 Hrs	Tea Break
04:30 – 08:00 Hrs	Tour/shopping
08:00 Hrs	Dinner

### **Day-3 (Friday: October 18, 2024) at Baqai Medical University**

10:00 – 10:45 Hrs	<b>Keynote Speech-4</b>
10:45 – 11:00 Hrs	Tea Break
11:00 – 12:30 Hrs 8 presentations in each session	<b>Contributed Papers</b> Session 14: <b>Statistics-4</b> Session 15: <b>Applied (Health Sciences Data)</b> Session 16: <b>Applied (Statistics in other related disciplines)</b>
12:30 – 22:00 Hrs	Lunch and Jumma Prayer Break
02:00 – 03:00 Hrs	<b>Business Session</b>
03:00 – 14:00 Hrs	Closing Ceremony and Certificate Distribution

### **Conference Venue:**

<b>Day/Date</b>	<b>Venue</b>
<b>Day-1: October 16, 2024</b>	<b>Dow University of Health Sciences</b> KDA Scheme 33, Gulzar-e-Hijri Suparco Road Ojha Campus, Karachi
<b>Day-2: October 17, 2024</b>	
<b>Day-3: October 18, 2024</b>	<b>Baqai Medical University</b> 51, Deh Tor, Gadap Road, Near Toll Plaza, Super Highway, Karachi

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October 16-18, 2024

at

Dow University of Health Sciences and Baqai Medical University  
Karachi Sindh (Pakistan)

## REGISTRATION FORM

Full Name	
Designation	
Organization	
Address:	
Tel/Cell:	
Email:	
Do you intend to submit a paper?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Title(s) of Paper(s)	

### DEADLINES:

Submission of Abstracts of Papers and Posters	September 20, 2024
Acceptance of Abstracts	September 27, 2024
Submission of Full-Length Papers/Posters	October 12, 2024
Last Date for Registration	October 16, 2024

### REGISTRATION FEE:

	BEFORE Sept. 30, 2024	AFTER Sept. 30, 2024
Delegates / Participants / Faculty Members	Rs. 4000/-	Rs. 4500/-
ISOSS Regd. Members/Faculty of Dow & Baqai	Rs. 3500/-	Rs. 4000/-
MPhil/PhD Students	Rs. 3500/-	Rs. 4000/-
Undergraduate students	Rs. 2000/-	Rs. 2000/-
Foreign Delegates	US\$ 300/-	US\$ 300/-

- Registration fee includes conference materials, tea/lunches.
- Registration fee payable through cash/demand draft/pay order and/or online deposit in A/c No.0007-0081-001970-01-7, IBAN: PK74BAHL0007008100197001 in Bank AL Habib Limited, New Garden Town Branch, Lahore. The title of A/c is Islamic Society of Statistical Sciences.

Please send the filled form alongwith Registration Fee screenshot at the following address:

- School of Public Health, 2nd Floor Nursing Building, OJHA Campus, Dow University of Health Sciences, Suparco Road, KDA Scheme 33, Karachi. Email: icss21.karachi@duhs.edu.pk
- Office of Research Innovation and Commercialization (ORIC), Block-B 2nd Floor, Baqai Medical University, Superhighway, Karachi. Email: isoss21.khi@baqai.edu.pk

### WhatsApp

- 0300-8239892
- 0315-1153622