

# 8<sup>th</sup> International Conference on Data Management, Analytics & Innovation

VIT Vellore, India | Date: 19- 21 January, 2024

Kindly Visit Link for details: <http://www.icdmai.org/>

## Special Session: Health Analytics: From Data to Insights

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## Motivation and Objective of the Session

This special session aims to shed light on Health Analytics, which is the process of using data-driven approaches to gain meaningful insights and inform decision-making in the healthcare industry. It involves collecting, organizing, and analyzing vast amounts of healthcare data from various sources, such as electronic health records, medical imaging, wearable devices, and clinical trials. The ultimate goal of health analytics is to transform raw data into actionable insights that can lead to improved patient outcomes, better resource allocation, and more efficient healthcare delivery.

Key steps in the health analytics process include data collection, data cleaning, data integration, and data analysis. Health data can be both structured (e.g., lab results, patient demographics) and unstructured (e.g., clinical notes, medical literature), necessitating sophisticated techniques like natural language processing (NLP) to extract valuable information from unstructured sources. Data analysis techniques commonly used in health analytics encompass statistical analysis, machine learning, and artificial intelligence. These methods aid in identifying patterns, trends, and correlations within the data, which can be used to predict disease risk, enhance diagnostic accuracy, optimize treatment plans, and even discover new drugs or therapies.

Health analytics plays a crucial role in precision medicine, which tailors treatments to individual patients based on their genetic makeup, lifestyle, and other factors. By analyzing large datasets, health analytics enables healthcare providers to offer personalized and more effective care, leading to improved patient satisfaction and health outcomes. Moreover, health analytics supports population health management and public health initiatives. It helps public health officials track disease outbreaks, identify high-risk groups, and design targeted interventions to prevent the spread of infections and promote healthier communities.

However, health analytics comes with its challenges, particularly regarding data privacy and security. Healthcare data is highly sensitive, and it is essential to adhere to strict privacy

regulations to protect patients' confidentiality while still allowing for data sharing in research and analysis.

The special session is an endeavour to present health analytics as a powerful tool that transforms vast amounts of healthcare data into valuable insights, ultimately leading to more informed decisions, improved patient care, and advancements in medical research. As technology and data science continue to evolve, health analytics will undoubtedly play an increasingly vital role in shaping the future of healthcare.

## **TOPICS**

**Topics of interest for this session include, but are not limited to:**

- Electronic Health Records (EHR) and Data Integration
- Predictive Analytics for Disease Diagnosis
- Drug Discovery and Development
- Precision Medicine
- Health Monitoring and Wearable Devices
- Healthcare Image Analysis
- Natural Language Processing (NLP) in Healthcare
- Patient Outcome Prediction
- Fraud Detection in Healthcare
- Public Health Analytics
- Data Privacy and Security in Healthcare
- Healthcare Data Visualization
- Telemedicine and Remote Patient Monitoring
- Ethical Considerations in Healthcare Data Science
- Data Science in Health Policy and Planning
- Clinical Decision Support Systems (CDSS)
- Healthcare Data Quality and Integration
- Real-time Monitoring and Surveillance.
- Healthcare Performance Metrics and KPIs
- Healthcare Data Mining
- Healthcare Predictive Modeling
- Patient Segmentation and Cohort Analysis
- Social Determinants of Health Analysis.
- Healthcare Cost Analysis and Resource Optimization
- Ethical Considerations in Health Analytics

The conference aims at carrying out double blind review process. The papers submitted by the authors will be assessed based on their technical suitability, scope of work, plagiarism, novelty, clarity, completeness, relevance, significance, and research contribution.

## **IMPORTANT DATES**

Call for paper begins: **20/07/2023**

Last date of paper submission: **30/08/2023**

Author Notification: **25/10/2023**

Early Bird Registration closes: **31/10/2023**

Camera Ready Copy & Copy Right submission: **31/10/2023**

Conference Start: **19/01/2024**

Registration closes: 15 Nov 2023

## PAPER SUBMISSION

Submission Link: <https://easychair.org/account/signin?l=OSqy6G3LcGJXiyAMyiiCKa>

Guidelines for Submission are posted at: [https://www.icdmai.org/guidelines\\_paper](https://www.icdmai.org/guidelines_paper)

The manuscripts must be submitted in PDF Format. Acceptance of papers will be communicated to the authors through email.

## PAPER SUBMISSION PROCESS

- 1) Authors are invited to submit papers in electronic format through Easy Chair.
- 2) Unregistered authors should first create an account on EASYCHAIR to login.
- 3) Further guidelines for submission are posted at [http://www.icdmai.org/guidelines\\_paper](http://www.icdmai.org/guidelines_paper)
- 4) All papers that confirm to submission guidelines will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability.
- 5) The manuscripts should be submitted in PDF format. Acceptance of papers will be communicated to authors by email.

## REGISTRATION

Every accepted article/research paper should be registered by at least one author to attend the conference. The acceptance list of article/research paper will be announced on the website and the authors will be intimated regarding the acceptance through e-mail. The details about registration fee are given below:

### REGISTRATION FEES FOR PAPER PRESENTERS

Category	Early Bird Registration till 31 Oct 2023		Registration Fee from 1-30 Nov 2023		Onsite Registration Fee (only for Co-Author)	
	Indian (INR)	Others (US \$)	Indian (INR)	Others (US \$)	Indian (INR)	Others (US \$)
<b>Students</b>						
S4DS Member	6000	200	6500	250	7000	350
Other	6500	250	7000	350	7500	450
<b>Research Scholar</b>						
S4DS Member	7000	250	8000	350	9000	500
Other	8000	350	9000	500	10000	600
<b>Academician</b>						
S4DS Member	8500	350	9500	450	10500	650
Other	9500	450	10500	550	12000	750
<b>Industry Professionals</b>						
S4DS Member	10000	450	12000	500	14000	800
Other	12000	500	14000	650	15000	950

1. Only registered delegates can attend the conference.
2. In order to include the selected paper in Conference Proceedings, at least one author has to register and present his/her paper at the conference.
3. If multiple authors of selected papers wish to attend, they are requested to register separately & will not be entertained as accompanying persons.
4. Student delegates are requested to attach a letter from the HOD/Dean/Principal/Research Guide verifying their full-time student status.
5. PG Students and PhD Scholars will be considered under Research Scholar Category.
6. Registration fees include, breakfast, Lunch, evening tea/coffee for all three days, one day gala dinner, conference kit, & conference proceedings.
7. Registered candidates cannot claim for refund on their absence in the conference.

**Note:** The above mentioned Registration Fee is inclusive of Service Tax