



INTERNATIONAL ASSOCIATION FOR EDUCATORS AND RESEARCHERS  
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## Annals of Emerging Technologies in Computing (AETiC)

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## **AETiC Special Issue on “Health Informatics in the Era of Big Data”**

### **Special Issue Editors:**

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### **Special Issue Aims and Scopes:**

The healthcare industry generates a large amount of data, including clinical records, medical images, genomic data, and health behaviours. This data holds immense potential to aid clinical decision-making, disease surveillance and public health management. However, given the volume and complexity of clinical data, processing it can be a significant challenge. Therefore, it is crucial for the healthcare sector to adopt innovative approaches to manage and process data efficiently.

This special issue aims to highlight the essential role of Health Informatics in leveraging Big Data Analytics and Artificial Intelligence (AI) technology to improve patient care, streamline operational efficiencies and enable informed medical decision-making. The field of Health Informatics combines healthcare, information technology and data science to drive advancements in healthcare. It uses technology to collect, manage and analyse data, which can provide crucial insights for healthcare professionals to make informed decisions and improve patient outcomes. By exploring the potential of Big Data analytics in Health Informatics, valuable information hidden in large data sets can be unlocked and used it to transform the healthcare delivery.



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Topics may include, but are not limited to:

### **Theme 1: Medical Data Management and Governance**

- Electronic Health Records and its Linkages with Health Systems
- Medical Data Standards and Interoperability
- Data Security, Privacy and Ethics in Healthcare
  - Data Integrity
  - Medical Information Hiding
  - Data Anonymization and Pseudonymization
  - Differential Privacy
  - Homomorphic Encryption
  - Data Masking
  - Security and Privacy Solutions for IoMT
- Cloud Computing in Healthcare
- Blockchain in Healthcare
- Visualisation Tools for Medical data

### **Theme 2: AI and Healthcare**

- Recommendation Systems for Precision Medicine
- Big Data and Evidence-based Medicine
- Diagnostic AI Model for Preventive Medicine
- Deep learning for Healthcare Delivery
- Application of Explainable AI in Digital Healthcare Systems
- AI in Medical Human Computer Interaction (HCI)

### **Theme 3: Bioinformatics**

- Gene Therapy
- Drug Discovery
- Genomic, Proteomic and Biomarker Discovery

**Submission Deadline:** 2<sup>nd</sup> August 2024

**Review Notification:** Continuous process

**Publication Date:** 1<sup>st</sup> November 2024 (tentative)



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### Submission Procedure:

Authors can submit Full papers, with a length between eight to eighteen pages, using [AETiC's Submission and Review Platform](#). While submitting, authors need to select "SI\_HIEBD" as the section to indicate the submission is for this special issue. Please make sure that the manuscript has been prepared using [AETiC MS Word Template](#) and it adheres to the author [guidelines](#). Additionally, authors need refer to the detailed [instructions](#) on preparing the manuscript.

If you require any further assistance or information, feel free to email us at [aetic@theiaer.org](mailto:aetic@theiaer.org).

We look forward to receiving your contributions.

Very best Regards

AETiC – Editorial Office

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