C A L L   F O R   P A P E R

Special Session on

"Recent Advancements in Artificial Intelligence for Medical and Healthcare Applications"

In

International Conference

on

Contemporary Computing and Informatics
(IC^{3}I-2023)

14th – 16th September 2023

At

Amity University Uttar Pradesh, Plot No. 48 A, Amity Road, Knowledge Park III, Greater Noida, Uttar Pradesh, India – 201308.

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Session Chair:

Dr. Balasubramaniam S, (IEEE Senior Member), University of Kerala, Thiruvananthapuram, Kerala, India.
Dr. A Prasanth, Sri Venkateswara Collge of Engineering, Sriperumbudur, Near Chennai, Tamilnadu, India.
Dr. Rajesh Kumar Dhanaraj, Galgotias University, Greater Noida, Uttar Pradesh, India.

Important Weblinks:

- To visit Conference Website,**click here**
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Important Dates:

Paper Submission Deadline: 14th June 2023
Notification of Acceptance: 16th July 2023
Camera Ready Paper Submission Deadline: 31st July 2023
Last Date of Registration: 12th August 2023
Conference Date: 14th – 16th September 2023

Amity University is a research driven University which offers higher education in diverse field from Engineering, Management, Life Sciences, Applied Science and the like. Amity University provides quality platform for research in field of Academics. The campus is organizing International Conference on Technological Advancements and Innovations on 14th – 16th September 2023.

This Conference includes many topics which were deeply deliberated and which brewed new ideas. Thus, giving rise to new avenues for researcher. We aim to take those concepts further to derive fresh hypothesis and arrive at the logical deductions. The participation of scientist from across the globe was very encouraging in our last conferences organized in India. This time we are anticipating even larger congregation from more diverse domains as we are reaching out too many eminent philosophers, thinkers and academicians from scientist fraternity.

Sub-themes *(but not limited to):*

The healthcare service system is essential in the medical field, which has enormous demands on human existence. In recent years, Artificial Intelligence (AI) has seen rapid development and is being used extensively in the domains of computer science and engineering. As a result of recent developments in machine learning and deep learning, artificial intelligence has become a hot topic across all academic disciplines. In particular, in the cutting-edge technology and applications of smart healthcare services. AI and machine learning are two examples of the sophisticated technologies being used by healthcare practitioners in developing countries. Recent research into AI has revealed its promising applications in the fields of medical imaging and data analysis.

In terms of AI integration, developments in healthcare have spurred study of healthcare intelligent systems with a focus on patients as individuals. The evolution of intensive care and administrative tasks in healthcare facilities is impacted by the rise of artificial intelligence technologies. Quick, cheap, and better-qualified answers to the challenges of modern diagnosis, prevention, treatment, and healthcare are made possible by these innovations. Artificial intelligence (AI) has several potential uses in the medical diagnostics process, including improving prediction accuracy, service delivery, disease detection, and more. The AI-assisted procedures are developments in the technologically advanced and intensely researched medical sector. Drug research, personalised medicine, clinical diagnosis inquiries, robotic-assisted surgery, prescription verification, obstetrics training, radiography, and patient data analytics reviews are all examples. In recent years, automation has become synonymous with the deployment of artificial intelligence.

The purpose of this special session is to provide a forum in which researchers and practitioners that employ unsupervised or supervised learning based on AI models for any clinical tasks can present and discuss their latest work and exchange ideas for improving the use of AI in healthcare.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following

- Artificial Intelligence, Machine Learning and Deep Learning Models for Disease Diagnosis.
- Computer vision in medical imaging
- Natural Language processing in healthcare
- Internet of Things in healthcare
- Smart Medical or Healthcare robotics
- Biomedical Audio / Video systems and signal processing
- Biomedical Big Data and Data Analytics.

- Cloud, Fog, Edge, Ubiquitous Computing
- Knowledge Discovery and Data Mining
- Knowledge-based reasoning in Biomedicine.
- Explainable AI (XAI) for Health Precision medicine and health
- Future trends, breakthroughs, and innovations in the Internet of Medical Things.
- Healthcare Data Analytics with predictive data analytics and risk measures.
- Security and Privacy issues in healthcare systems.
- AI integrated with other advanced technologies, such as blockchain, to provide innovative solutions for the healthcare industry.

Note: It is a mandatory requirement that all papers submitted for this session must be e-mailed to baluttn@gmail.com, drapranthdgl@gmail.com, sangeraje@gmail.com along with Microsoft CMT submission.

In case of any query, please write to us on:

baluttn@gmail.com, drapranthdgl@gmail.com, sangeraje@gmail.com