DoSCI-2022
International Conference/Doctoral Symposium on Computational Intelligence

Organized **by Institute of Engineering & Technology, a constituent college of Dr APJ Abdul Kalam Technical University Lucknow, India**
On 05 March 2022.

************** CALL FOR PAPERS ***************

Special Session
on
Recent advancement towards Healthcare Informatics

Aim & Scope: Health informatics is growing field in healthcare sector as it deals with acquiring, storing, retrieval and use health care data. Health Informatics provides the updated medical records for medical practitioners, patients, Insurance companies, hospitals etc. It has four components emerging technologies, epidemiology and health management, advanced statistics and health systems. The healthcare industry trends are evolving with advancements in the technology. Many advanced techniques have made it possible to understand human body and to handle & process the health data. Artificial intelligence based applications in the healthcare have brought a paradigm shift in planning and providing health care services. Computational intelligence methods such as Artificial Neural Networks, fuzzy based models, Nature Inspired algorithms, and probabilistic methods have recently emerged as promising tools for the development and application of intelligent systems in healthcare practice. Health Informatics continues to gain interest from both academia and health industries.

The special session on "*Recent advancement towards healthcare informatics*" is to bring practitioners from both academia and industry to share their insights and current advancements in the field of healthcare informatics. In this special session, we invite technical papers describing original and unpublished results of foundational, theoretical, empirical, and applied research that provide software based solutions in the healthcare domain

Topics of Interest: The topics of interest include but are not limited to:
- ❖ Data mining in healthcare
- ❖ Deep learning based healthcare analytics
- ❖ Optimization techniques in medical and healthcare applications
- ❖ Computer vision for assisted healthcare services
- ❖ Improved supply chains and improved patient prediction
- ❖ Computer-aided medical decision support systems
- ❖ Smart healthcare staffing and enhanced patient engagement
- ❖ Predictive risk disease management
- ❖ Disease modeling
- ❖ Fuzzy logic and fuzzy models for healthcare
- ❖ Evolutionary computing for healthcare
- ❖ Artificial neural networks for healthcare

- ❖ Probabilistic models for healthcare
- ❖ Wearable devices
- ❖ Medical imaging/biomedical signal processing and analytics
- ❖ Mobile healthcare
- ❖ Big data analytics in healthcare
- ❖ Cognitive computing for healthcare delivery and disease management
- ❖ Smart healthcare technologies such as big data analytics, edge computing, and Internet of Things (IoT).

Sessions Organizers:

Dr. Neetu Sardana, JIIT, Noida, UP.
Dr. Ankit Vidyarthi, JIIT, Noida, UP.
Dr. Rabindra Barik, KIIT University, Odissa.
Dr. Amrendra Yadav, Manipal University, Jaipur.