Special Session Title:

"Computational Intelligence for Biomedical Devices, Systems & Applications"

Aim & Scope

Computational intelligence has enormous potential to improve performance of biomedical devices and systems. Efficient, reliable, low power and portability will be important parameters for the performance of such smart biomedical systems. Therefore, design and architecture level changes are proved to be useful mean for next generation smart biomedical systems and applications. This special session will be focused to attract the researchers, practitioners, expert for bringing their ideas and research at common platform and get benefited through mutual exchange of ideas & discussions. Authors may also invite or get the feedback on the level of research work done that may lead to further improvement in their work. Session includes computing techniques for efficient disease prediction models, architecture design & implementation, design of biosensor, software-hardware interfaces for biomedical applications etc.

Topics of Interest: Original and unpublished papers are invited in thefollowing topics and not limited to:

- Machine learning and deep learning models for bio informatics
- Biomedical signal processing techniques
- Data acquisition systems for biomedical application
- Computing techniques in disease prediction
- Brain computer interfaces for mental disorders
- Computing techniques for sentimental analysis
- Computing techniques for virus detection
- ASIC design for biomedical application
- Biomedical data storage devices
- Tele medicine interfaces
- Re-configurable architectures for real time system implementation
- Human-computer interfaces for biomedical devices
- Machine learning techniques for VLSI design
- Analog IC design and testing algorithms and models
- Secured hardware design algorithms & application
- Design and implementations of biosensors

Special Session Chairs :

Dr Suman Lata Tripathi,Professor, Electronics and Electrical Engineering, Lovely Professional University, Punjab India

Dr Balwinder Raj, Associate Professor, NIT Jalandhar

Dr Mufti Mahmud, Associate Professor, Department of Computer Science and Engineering, Nottingham Trent University (NTU), UK