Title of the Thematic Issue: “Applications of Advanced Computing Solutions for Healthcare Systems – Part 2”

Guest Editor: Dr. Sivakumar Rajagopal

- **Scope of the Thematic Issue:**
  Soft computing solutions integrate the Internet of Things, Mobile Computing, Medical Image Processing, Biosignal Processing, and communications technologies for Healthcare applications. Soft computing based services are widely used in the healthcare industry. Integration of various soft computing represents an emerging technology for system integration with great potentials for real health monitoring and decision making. However, soft computing solutions will have to resolve several issues, such as severe limitations of data necessary to improve user’s compliance, resource constraints, intermittent availability of uplink connectivity, and reliability of transmission, security, and interoperability of different platforms. In addition, there are many challenges like integrations of healthcare systems with mobile platforms, real-time connectivity over heterogeneous networks security and privacy and others. With the applications of advanced computing solutions placed in the hospitals in urban and rural areas, and the mobile computing devices with advanced computing solutions have the intelligence to acquire and process the data immediately, some of the issues like security and privacy are overcome. More intelligent computing solutions can be made available in handheld devices by building more facilities in the device software. This thematic issue mainly focuses on recent developments in computing solutions for integrating AI, machine learning methods, medical image processing, advanced networks security, advanced biosignal processing techniques to bring efficient healthcare systems, which are leading to a new and promising and secure healthcare system. This issue aims to bring together researchers and practitioners to address several kinds of research and achievements in the field of healthcare systems for personalized intelligent healthcare and remote monitoring applications.

**Keywords:** Soft Computing, Internet of Things, Mobile Computing, Healthcare, Network security, Medical Image Processing, Biosignal Processing.

**Sub-topics:**
The sub-topics to be covered within the issue should be provided:
- Internet of Things in Healthcare
- Mobile Computing Solutions in Healthcare
- Medical image processing techniques for Healthcare
- Biosignal processing techniques for Healthcare
- Artificial Intelligence (AI) based parallel computing environments in personalized health care systems
- Predictive analytics and AI human intelligence in IoT based healthcare solutions
- Mobile app development techniques for healthcare solutions
- Smart wearable sensor design techniques for the healthcare system
- Data analysis and prediction techniques healthcare solutions
- Data mining and Machine learning techniques for healthcare solutions
- Modelling and Simulations of efficient healthcare systems

**Tentative titles of the articles:**
- Medical Image Processing Application in Healthcare
- Biosignal Processing in Healthcare
- Mobile Computing Solutions for Healthcare
- Medical Image Processing in Healthcare
- Signal Processing in Healthcare
Schedule:
- Thematic issue submission deadline: 01.08.2022

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