

Tentative Outline

Special Thematic Issue for the journal Recent Advances in Computer Science and Communications

Title of the Thematic Issue: “Emerging Technologies enabled Smart Healthcare Framework towards Sustainable Healthcare Industry”

Guest Editors: Dr. Vijayan Sugumaran, Dr. Shanu Sharma, Dr. Divya Mishra

- **Scope of the Thematic Issue:**

Quality healthcare is the basic necessity of every person and extending quality healthcare to all communities is an important goal for sustainable societies and economies. In past two years the world has faced major healthcare services related challenges during Covid-19 pandemic. Since then, various industries are now focusing on healthcare sector for its improvisation. On the other side, a massive transformation has been witnessed in technology space with the convergence of emerging technologies such as IoT, Edge Computing, FoG Computing, Block Chain and 5G. These emerging technologies have a lot of scope in different industries to make them work efficiently. Thus, re-engineering of healthcare sector using such advanced technologies is the need of the era.

Due to the remarkable power of these technologies in transforming industries, this special issue is proposed to present recent advancements in exploring and developing AIoT-powered and Block Chain enabled strategies and mechanisms for efficient and future healthcare infrastructure. The special issue is intended for researchers, practitioners, engineers, and scientists involved in the design of intelligent healthcare applications using these emerging technologies. Authors will be invited to submit their innovative ideas and work done in the field of mentioned sub topics but not limited to:

Keywords: healthcare, IoMT, Block Chain, Wearable devices, Assistive Devices

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- IoMT (Internet of Medical Things)
- AIoT for remote patient monitoring
- Edge and Fog Computing assisted Medical Internet of Things
- Intelligent patient monitoring
- Optimized Frameworks for Smart Environment enabled patient monitoring
- Wearable assistive devices for patients
- Intelligent data processing and analysis methods for healthcare data
- Block Chain for monitoring of vital commodities
- Block Chain for privacy preserving healthcare frameworks
- Intelligent Assistive devices or applications using emerging technologies

Tentative titles of the articles:

Tentative titles to be submitted in the Proposed Special Issue are:

1. Lite Deep Learning Framework for efficient reasoning and inferencing for real time patient monitoring related data
2. Low-Cost Data Offloading and Computing over AIoT for Smart Healthcare
3. Cognitive Aspects and Computing Methods for Smart Healthcare
4. Optimized Cloud-based data processing architecture for Intelligent Devices in Healthcare Sector
5. Situation Understanding Context-aware for Healthcare Automation
6. An approach for managing healthcare waste smartly

7. IIoT-based approaches for Safety Measures in Smart Healthcare
8. AI embedded Low-cost IoT device development for monitoring patient in case of specific disease
9. Advanced Big Data analytic approaches in Healthcare Sector
10. Block Chain for privacy preserving healthcare frameworks

Schedule:

- ✧ Thematic Issue Submission Deadline: **01st Dec 2022**
- ✧ First Notification to Authors: **15th Jan 2023**
- ✧ Deadline for revised version submission: **5th Feb 2023**
- ✧ Final Decision: **28th Feb 2023**

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