Editorial

Special Issue on Medical Imaging Technologies for IoT Based Wireless Patient Monitoring

Internet of Things (IoT) plays a vital role in medical imaging technologies to enable fast access to information about patient health and continuous monitoring through the wireless environment. By using the cloud platform, the patient’s healthcare data can be stored and accessed. It makes e-health smarter in all aspects. Wireless Body Area Network (WBAN) is the most important factor and it will be surrounded by the patient. This WBAN technology helps resolve the issues including secure and safe communication, high efficiency and low complexity in installation. The advancement of this technology includes cloud storage, big data analytics, embedded sensors, sustainable computing, data mining, biomedical imaging, computational vision, healthcare informatics, cyber-physical/biological methods and smart wearable devices. Internet of Health Things (IoHT) is applied to collect the both data and vital information [1] from hospitals. Based on the information provided, intelligent algorithms are implemented. IoHT [2] helps to diagnosis the disease in earlier stage and provides the better solution by using decision making process. Big data analytics [3] helps to maintain the structured and unstructured data to avoid complexity in data transmission. Deep learning algorithm [4] plays a vital role in the detection of disease and helps in the diagnosis process. Magnetic Resonance Network in MS (MAGNIMS) [5] helps to update the image feature and pattern recognition process based on deep learning approach.

This special issue focused on the various aspects of medical imaging technologies such as the detection and classification of disease, disease prediction, fault diagnosis, wireless communication and IoT based video transmission. This issue addresses the research issues faced in normal day to day life activities such as communication security, transmission delay, channel allocation, resource utilization, signal propagation, topology maintenance, link control, error control, energy saving, lifetime maintenance and efficient communication.

REFERENCES


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