Foreword and Editorial

International Journal of Internet of Things and its Applications (IJIoTA)

We are very happy to publish this issue of an International Journal of Internet of Things and its Applications by Global Vision Press.

This issue contains 4 articles. Achieving such a high quality of papers would have been impossible without the huge work that was undertaken by the Editorial Board members and External Reviewers. We take this opportunity to thank them for their great support and cooperation.

The research paper “Implementation of IoT Smart Blackout Curtain Including Voice Recognition Function” explore that smart blackout curtain automatically opens and closes according to the user's setting for the busy modern man's smooth sleep activity without needs to operate the curtain manually. In this paper, to open and close the curtain according to the temperature, illumination, voice recognition and fine dust, the blackout curtain utilizing IoT technology was implemented by adding the voice recognition technology to the opening function by each sensor, through which it is expected to provide the convenience and the benefits to the life by allowing the operation anywhere.

In the paper “Comparison of Communication Protocol Power Consumption of Fine-Dust IoT Sensor Based on oneM2M Standard Protocol”, as everything is connected to the Internet, the Internet of Things can communicate without user intervention. The Internet of Things has recently been used in various areas such as smart homes, smart cars, smart factories, and industrial sites. Manufacturing, Agriculture, and we built a system that communicates between client servers using the communication protocols MQTT and CoAP communication protocols with fine dust sensors in an HTTP communication protocol environment and identified the amount of power used for each communication.

The purpose of the paper “Neural Network based Network Traffic Predictability for IoT Environment” is to predict of compare network changes using neural networks. Many devices operate for various purposes using network technology, but unmanaged network environments cause packet loss for a variety of reasons. This packet loss causes data retransmissions and delays, and in environment where limited battery or limited network resources must be utilized, various problems can occur. Experiments show how neural networks can be used to predict network changes and whether they can predict changes in real networks. Predictability of Network Traffic indicates that LSTM (Long Short-Term Memory) is higher than MLP (Multi-Layer Perceptron).

The research paper “An IoT Application to Monitor Water Quality” definitely realize that Water is the most significant asset on earth. It is the substance of all life on earth. But in the event that you ever observe a stream or lake around your city, it is clear to you that we are confronting an intense issue of Water contamination. The international society had given the facts that the 66% of the Earth’s surface is secured by water, seventy-six flawless of your body is comprised of water. As you definitely realize water is all over the place and all around. Be that as it may, we have a fixed measure of water on earth. Nowadays synthetic compounds, microorganisms, and different poisons are notwithstanding influencing our drinking water.

The existing methods of water quality testing, whether water is polluted or not, they use manual. By collecting water samples from different locations and these were tested in Labs which takes more time and expensive. So, these older methods were time consuming process and expensive. We proposing IoT based water quality monitoring system by addressing above issues. In this proposed system with the help of sensors we monitor the water quality parameters. So these different sensors will detect the contaminant present in the water and send the report to registered user Mobile smart phone, which is less expensive and Low time consuming.

March 2020

Editor of the March Issue on
International Journal of Internet of Things and its Applications