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(57) Abstract :  
 Abstract Wireless sensor networks (WSNs) had already proved their interest in research and development in several domains, such as communication, agricultural production, industrial, healthcare, surveillance and monitoring. IoT-based WSN has been utilized in agriculture production to monitor yield conditions and optimize agriculture precision with various sensors. Intelligent agriculture decisions and statistics about crops, florae, temperature measurement, moisture, and irrigation coordination improve production yields by using these sensors in the agricultural environment. Sensor limitations can harm agricultural production in terms of processing, energy, transmission, and memory. Such IoT-based agricultural sensors must be protected from malicious adversaries as well as efficient. An Internet-of-things WSN framework for smart agriculture is presented in this article, which includes various design levels. The first step is to use agricultural sensors to collect relevant data and use a multi-criteria choice function to select a group of cluster heads for further analysis. Transmission link signal strength is gauged using the SNR, which helps to ensure reliable and efficient data transmission. Secondly, the recurrence of the linear signal congruential generator provides security for transmission of data from agro-based sensors to BS. According to the simulated results, the proposed framework improved communication performance for smart agriculture by an estimated value of 13.71% bandwidth utilization, 37.15% the packet drop ratio, 13.57% the network latency, and 26.50% in the routing overheads when compared to other solutions.

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To  
The Principal,  
Bhavan's Vivekananda College,  
Sainikpuri, Secunderabad.  
Sir,

Sub: Permission to submit our paper for Patent-regarding.

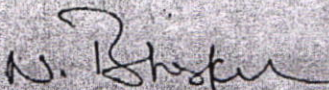
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We, Mr. Bhaskar Niraghatam and Mr. S. Ramana, working as faculty, Department of Computer Science in your college are willing to file for a Patent on "WSN FRAMEWORK INTERNET OF THINGS(IOT) FOR ENERGY EFFICIENT AND RELIABLE SUSTAINABLE AGRICULTURAL PRODUCTION" paper in Intellectual Property India. We will be publishing the paper with our research supervisor Prof. M V Ramanamurthy, (Retired) Prof. & Head, Department of Mathematics, Osmania University, Hyderabad.

We will update you the publication of our paper for patent.

Thanking you sir.

Regards.



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