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Research Article

Solar Powered IoT Sensors to Increase the Network Longevity

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Abstract

A wide variety of industries, such as the manufacturing business, the transportation industry, the environmental industry, and even the medical industry, are beginning to comprehend the significance of wireless sensor networks. This problem is being further amplified by the rapidly increasing use of devices connected to the Internet of Things across a wide variety of enterprises. Because of this, having an independent source of energy is essential because it determines the adaptability of placement and the simplicity of maintenance, both of which are essential to the widespread adoption of the

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the technology. In this paper we enable a solar powered IoT node communication using energy management system. Having an independent source of energy is essential because it determines the adaptability of placement and the simplicity of maintenance. The creation of energy-aware wireless sensor nodes has become increasingly feasible as a result of recent advancements in fields such as the manufacturing of a large number of highly efficient energy converters and the reduction of energy consumption in hardware, software, and communication protocols.

Q Keywords: Solar IoT sensor node communication energy management system

Correction Statement

This article has been corrected with minor changes. These changes do not impact the academic content of the article.

DECLARATION

Authorship Contributions

All authors are contributed equally to this work

Data Availability Statement

Data sharing not applicable to this article as no datasets were generated or analyzed during the current study

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No potential conflict of interest was reported by the authors.

Ethics Approval and Consent to Participate

No participation of humans takes place in this implementation process.

Human and Animal Rights

No violation of Human and Animal Rights is involved.

Additional information

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