Review of: "Optimized Low-Powered Wide Area Network within Internet of Things"

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Potential competing interests: No potential competing interests to declare.

The manuscript is generally very well written and clearly presented. The results have been clearly demonstrated with various scenarios. Well explained by giving importance to each scenario. The figures and steps in proposed work are very clear to understand the concept easily. The block diagram and system model depicted in paper are simple and easy to understand.

The proposed Low-Powered Wide Area Networks - LPWANs are providing reliable connectivity even in low-density areas and with devices and it is confirmed consuming low amounts of energy.

The work done by the researcher are design of an energy power consumption model of LoRWAN, simulation of an IoT wireless sensor network, and implementation of spreading factor allocation using particle swarm optimization (PSO) for the effective battery power consumption of an IoT device within LPWANs are good and appreciated.