

# Energy-Efficient Multihop Routing in IoT-Assisted WSN Using Multi-Objective Sandpiper Optimization

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**Abstract:** A Wireless Sensor Network (WSN) is a loosely connected network of tiny computers that detects physical properties including vibration, humidity, and temperature. They consist of a few to hundreds of wireless sensor nodes. Most sensor networks have a sink or base station to connect them to the outside world. Sensor nodes have tiny resources. The research is to develop multi-objective clustering algorithm with Sandpiper Optimization (SPO) and incorporating a multihop routing technique, the initial step involves defining the specific optimization problem

**Keywords:** WSN, Energy Optimisation, Multihop Routing