

## **168. ENERGY EFFICIENT DATA TRANSFER USING MOBILE SINK IN WIRELESS SENSOR NETWORKS**

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In this paper the energy consumption of nodes with the help of mobile sink in wireless sensor networks (WSNs). The energy consumption is obtained by arranging the sensor nodes in the cluster formation with the help of Honey bee algorithm and the mobile-sink node only visits rendezvous points (RPs), as opposed to all nodes. The cluster head is used to collect the data from the source nodes and send to the rendezvous points. The rendezvous points are allocated based on the weighted rendezvous planning algorithm. Sensor nodes that are not RPs forward their sensed data via multihopping to the nearest RP. The mobile sink which moves in its fixed path will gather the information collected in the rendezvous points.

Index Terms—Data collection, mobile sink, honey bee, wireless sensor networks (WSNs).

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