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(57) Abstract :

A method and a system are provided for facilitating secure routing of data packets in a wireless sensor network. In an embodiment, the method facilitates assigning a first trust value to each of a plurality of sensor nodes in the wireless sensor network based on a threshold value. A second trust value of each of the plurality of sensor nodes is determined. The second trust value is indicative of a power requirement for maintaining a transmission rate of the data packets. The assigned first trust value of each of the plurality of sensor nodes is compared to each of the determined second trust values of the corresponding plurality of sensor nodes. Further, in response to determination of a negative deviation of the comparison of at least one of a sensor node, declaring the at least one of the sensor node as a malicious sensor node.

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