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### **Collision Avoidance Scheme in Energy Constrained Wireless Sensor Networks**

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Abstract - Literature reported that Wireless Sensor Networks ( WSNs ) find applications in remotely monitoring and tracking many objects . These networks are battery driven and hence a major constrain in a WSN is its low energy . One of the factors that reduce the energy efficiency is collision . In WSNs , the density of transmission for attacks through the medium is often very high and as a result the traffic flow would be increased . These networks also experience a phenomenon which is very common known as congestion . Congestion results in huge packet loss and thus hinders reliable event perception . This paper is aimed at avoiding the congestion in WSNs, by making use of a protocol that includes a transmission parameter called source count value . The rate of transmission through the contention window is determined by its size. The paper also tries to reduce this delay to an ideal value, by using an optimized window size. The functioning of the protocol takes place by as sum in a priority value to the existing nodes, in accordance with number of packets held in it .