ABSTRACT

In Wireless Sensor Networks (WSN), Quality of Service (QoS) assumes a critical role as networks performance is relies on QoS only. WSN is exceptionally prevalent as it has wide application range. WSN is more cost effective for monitoring the different aspects of environment and enterprises. WSN has inadequate resources such as computational power and energy constraint. Congestion is one basic subject which has drawn consideration of many researchers. Congestion results into decreased network performance and also drains the battery of the node, which is a limited resource in WSN. So, congestion must be decreased to enhance QoS and lifespan of a network. In this project, we present an effective approach for enhancing congestion in wireless sensor networks. This proposed algorithm may reduce the congestion and gives an effective solution. It establishes multiple paths from each sensor node to the cluster head and passes it to a ‘traffic node’ that manages the congestion and then sends it to base station. Traffic Node is intermediate node between cluster head and base station.

ACKNOWLEDGMENT

The satisfaction and euphoria that accompany the completion of any task would be incomplete without the mention of the people who made it possible, whose constant guidance and encouragement ground my efforts with success.

I consider it is a privilege to express my gratitude and respect to all those who guided me in completion of Project.

It's a great privilege to place on record my deep sense of gratitude to **Dr. N. V. R. Naidu,** Principal MSRIT and the management team of MSRIT who patronized throughout our career & for the facilities provided to carry out this work successfully.

I am grateful to thank **Dr. K. G. Srinivasa,** Professor and Head, Department of CSE, MSRIT who patronized throughout our career & for the facilities provided to carry out this work successfully.

I am grateful to thank **Dr. Monica R. Mundada,** Associate Professor, Department of CSE, MSRIT for their invaluable support and guidance.

I also thank to the teaching and non-teaching staff members who have helped me directly or indirectly during the Project.

Finally, I also thank my parents, family and friends for their co-operation and motivation to complete this work successfully.

Desai Pranav Bharatbhai

1MS14SCN04