

Analyzing Performance of Adaptive Duty Cycle Scheduling Algorithm and Attribute Based Efficient Data Delivery for Code Dissemination in Multihop Wireless Sensor Network.

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Abstract— In this paper, we have analyzed the performance of two designed algorithms which is an integral part of our research to design a more energy efficient Code Dissemination protocol for multihop Wireless Sensor Network to provide the facility of reprogramming in order to support energy efficient over-the-air software updates in sensor, to set new functionalities or features, patch errors in the software after deployment & to set some parameters as per new requirement It enables sensor nodes to Self-reprogram so that they can adapt to changing tasks and evolving environments. In this research we tried to addresses the energy optimization issue. The objective to design the Adaptive Duty Cycle Scheduling Algorithm is to improve performance in terms of Minimum energy consumption & less end-to-end delay which is suitable for variable traffic load in the network and the objective to design the Attribute Based Efficient Data Delivery with Selective Approach is differentiated message delivery to achieve data reliability through a the attribute based data flooding in multihop WSN & Sleep schedule technique to minimize energy consumption through node selection.

Keywords— Multihop Wireless Sensor Networks (WSN), MAC, Duty cycle, Attribute based programming.

General Terms: Design, Reliability, Energy consumption, End-to-end delay.



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