

AN MOBILE AGENT BASED MEMORY MODEL TO PROVIDE EFFECTIVE COMMUNICATION IN WSN

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ABSTRACT

The energy efficiency is the foremost requirement of a sensor network. The network life, communication and the QOS are the factors that all are affected based on energy requirements of a network. To improve the network life there are number of existing routing mechanism to improve the QOS. In this present work, cache improved WSN architecture is defined. According to this presented architecture we have defined a mobile agent with some memory specification. In this work, a radial movement of this mobile agent so that the direct access of this mobile agent to each sensor network can be performed. The available memory in this agent node is limited so that the page replacement approach is also defined in this work based on the requirement frequency of a particular data value. Now when some node required some data, instead of performing the communication from source node, it will request for the data to the mobile agent. If the mobile agent is in range and avail the data, it will provide it immediately otherwise the data will be transferred from the source node. The presented model is implemented in matlab environment and the obtained results shows that the presented work has improved the network communication as well as network life.

KEYWORDS: Page Table, Agent Based Model, QOS, Page Replacement, Centralized Model