Abstract

As the WSN getting involved in multi-objective system it needs to cope up with different types of data and to properly transfer them according to their requirements. Since the different kind of data have different delay and bandwidth requirements constrains which needed to be fulfilled without exceeding the node internal constrains such as queue buffer overflow. Previous studies shown that the packet scheduling algorithm for WSN does not perform effectively and efficiently which result in degraded QoS. There are different ways to packet scheduling such as to allocate overall bandwidth and time slot on request by following strict priority to adaptive priority basis. Because complexity of task some of these scheduling algorithms require complex mathematical approach to solve the issue. This paper present a fuzzy based algorithm to overcome all related problems which are explained earlier other advantage of using fuzzy logic is that it does not require complex mathematical calculations, finally the simulation of the proposed algorithm is performed using NS2 and the results shows that the proposed algorithm satisfactorily fulfill the system requirements.
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Index Terms

Computer Science

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Keywords

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