Abstract

In this paper, the TCP throughput has been modeled under an ON-OFF model of the access point. In the ON-OFF model, the access point spends a fixed amount of time in the ON and OFF states. Also, these states appear in an alternating fashion. When a station is associated with an access point, this model of the access point helps the station to conserve battery power. Also, since many of the applications on the internet run TCP, it is of interest to model and understand the behavior of TCP in such a system. Since throughput plays a major role in determining how the user at the station evaluates the performance of the network, the same has been tried to be modeled. Also, this modeling has been validated using simulation.

References

- Anurag Kumar, Discrete event stochastic processes, in lecture notes for Engineering Curriculum, 2008, IISc, Bangalore
TCP Throughput under ON-OFF Model of Access Point


Index Terms

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Keywords