Abstract

Wireless Mesh Network (WMN) has become an important edge network to provide Internet access to remote areas and wireless connections in a metropolitan scale. The wireless mesh network and the associated IEEE 802. 11s standard have attracted an enormous amount of research in this field from the past few years. In our proposed approach first, we are discussed multiple gateway fair scheduling process which consists of distributed routing and requirement tables and a propagation algorithm for scheduling at the gateways. Then a mixed-bias fair scheduling which is bias against different characteristics of the network. This technique biases against characteristics of the network which are detrimental to performance, fairness, or both.

References

- Yahya al-hazmi and hermann de meer, "virtualization of 802. 11 interfaces for wireless mesh networks", ieee 2011 eighth international conference on wireless on-demand network systems and services, pp- 44-51.
- Jad el-najjar, hamed m. k. Alazemi, and chadi assi, "on the interplay between spatial reuse and network coding in wireless networks", ieee transactions on wireless communications, vol. 10, no. 2, february 2011, pp- 560-569.
- Chetan kumar verma, bheemarjuna reddy tamma, b. s. Manoj, and ramesh rao, "a realistic small-world model for wireless mesh networks", ieee 2011.

Index Terms

Computer Science

Wireless

Keywords

WMN  Scheduling Approach  Multiple Gateway Protocol  and Cross-Layered Mixed-bias Approach