Abstract

Wireless Mesh Networks (WMN) is emerging as a promising technology platform for future generation wireless networking. It has distinct technical advantages over other available wireless technologies. However, the increasing requirement of smart users drives heavy data traffic in WMNs and hence their load management becomes crucial for efficient network operation. Smarter load management also leads to higher WMN reliability, enhanced throughput, scalability and network availability. This paper provides a detailed investigation of various load management techniques for WMNs proposed so far that will enable us to better understand load balancing and associated challenges.

References

- S. Pande, V. Pande, G. Kadambi and Y. Varshinin, Managing the Integrity of Wireless
A Survey on Load Management Schemes in Routing Algorithms of Multi-Hop, Multi-Gateway Wireless Mesh Networks

Mesh Networks for Load Sharing and Internetworking, IEEE/ACM Transactions on Networking, 10 May 2013.

- A. Avokh and G. Mirjalily, Load-Balanced Multicast Tree Routing in Multi Channel Multi Radio Wireless Mesh Networks Using a New Cost Function, Published online: 20 March 2012 © Springer Science+Business Media, LLC. 2012
A Survey on Load Management Schemes in Routing Algorithms of Multi-Hop, Multi-Gateway Wireless Mesh Networks

- Y. Bejerano, Efficient Integration of Multi-Hop Wireless and Wired Networks with QoS Constraints, ACM, Mobicom, 2002

Index Terms

Computer Science Wireless

Keywords
Wireless Mesh Networks; Load Management; Routing Algorithm; Load Balancing.