Abstract

In recent years, wireless networks have become a necessity rather than a luxury. Wireless networks suffer in providing high throughput for high-end applications like multimedia, etc. Network coding is proposed to improve the throughput of the network. In this paper, we apply network coding technique at the relay in wireless environment which is based on a simple XOR. It brings out the benefits of network coding over store and forward technique. The results highlight that using a simple XOR-based network coding increases the normalized stable throughput compared to traditional store and forward routing.

References

- Rudolf Ahlswede, Ning Cai, Shuo-Yen Robert Li, and Raymond W. Yeung,
Performance of Wireless Network using Network Coding over Store and Forward Technique


Index Terms

Computer Science
Networks

Keywords
Network Coding Wireless Networks Stable Throughput Packet Loss