Abstract

Aggressive Packet Combining (APC) scheme is well established for receiving correct packet in high error prone wireless link. In APC three copies of a packet are transmitted and receiver does bit wise majority decision to get the correct copy. The main research challenge in APC is that if two or more copies of the packet become erroneous at the particular bit location then majority logic fails to correct the error and also as three copies of packet are sent at a time, throughput degradation takes place at higher error rate channel. In this paper we propose a new method of correction in APC which will address the limitation which occurs in conventional APC.

References

New Protocol of Aggressive Packet Combining Scheme: An Extension to Throughput Comparison

- A R K Sastry, "Improving Automatic Repeat Request performance on satellite channels under high error rate conditions", IEEE Trans Comm, April, pp 1-10.

Index Terms

Computer Science

Networks

Keywords

Packet combining Scheme
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scheme

Majority Packet combining scheme

Throughput