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Title:

A Survey on TCP Congestion Control and its Variant for Wireless Networks

Abstract:

Transmission Control Protocol (TCP) is a widely used end to end protocol. TCP is a high reliability protocol for the wired Network. There are many TCP variants that modified and developed with respectively with the communication needs. Most of TCP current versions are include set of algorithms which built to control the congestion in critical links of network with maintaining the network throughput. Packet losses are not entirely avoidable. These packet losses happen mainly due to congestion. Another key component of TCP is its congestion control mechanisms such as slow start, congestion avoidance, fast retransmit and fast recovery. But these control mechanisms have reached their limitations in some challenging network environments so it requires further analysis for the development of congestion control mechanisms.TCP works efficiently for the wireless Network. Paper also discusses the reasons for congestion control and TCP variants like TCP Tahoe, TCP Vegas, TCP Reno etc.