
ABSTRACT

TCP – Westwood (TCPW) is a Reno – based new congestion control algorithm with sender – side modification. The basic principle is continuously estimating available end – to – end bandwidth – share, by monitoring every Acknowledgement (ACK) received. The objective is TCP Westwood try to be more adaptive with network condition, thus will improve bandwidth utility. Contrast to Reno, when congestion occurs, blindly halved the congestion window, TCP Westwood using estimated bandwidth to determine Congestion window (Cwnd) and slow – start threshold (sstresh). TCP Westwood is suitable to implemented over wireless, where congestion most occurs by random loss rather than network overload. TCPW performs better if compared to Reno and Vegas. From simulation result, with one – way satellite, bandwidth 1.54Mbps, and minimum RTT 310 ms, Westwood's Throughput is 223% of Reno's and 146% of Vegas's over link condition with 0.01 packet error rate.