Abstract

In this paper, present an improved transmission control protocol. For IoT devices. Currently there are different protocols are exist based on user data gram approach. Similarly TCP is also worked alone, In this present work proposed and improved transmission control protocol that is the hybrid concept of TCP and UDP on IPV6 platform. In the ITCP protocol TCP is used for link connection between two devices and UDP is used for the data sending. On the basic on this proposed new protocol that shows good improved result the transmission time, throughput, packet delivery ratio and other parameters as compare to other IoT protocol present in the IoT. For the simulation of proposed ITCP protocol used JAVA platform. Also compare the proposed result with different protocols.

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**Index Terms**

Computer Science Security

**Keywords**

Computational time, throughput, packet delivery ratio (PDR), packet loss, transmission control protocol (TCP) and User data gram protocol (UDP).