



**RESEARCH ARTICLE**

# **Modeling, Evaluation and Analysis of Ring Topology for Computer Applications Using Simulation**

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*Abstract— A computer network, or simply a network, is a collection of computers and other hardware interconnected by communication channels that allow sharing of resources and information. In this work performance analysis of the ring network configuration through simulation has been attempted. The work was started with the investigation of the network performance using various types of links. The impact of various network configurations on the network performance was analyzed using the network simulator-OPNET. In this analysis, the parameters investigated in are Delay (Sec), Load (Bits), Load (bits/sec), Load (Packets), Load (packets/sec), traffic Received (packet/sec), Traffic received (packets), Traffic Received (bits/sec), Traffic Received (Bits). A ring network is designed with using OPNET ,having 10 Ethernet work stations. The analysis of above Ethernet parameters have been investigated and have concluded that the throughput diminishes when increased in network size.*

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