Abstract

This disquisition presents a energy consumption in a network which is a important physical factor against this everlasting increase in network traffic. Since current equipment in network consumes energy inefficiently due to poor energy load proportionality we have modeled a packet optical transport networks. By employing integer linear programming (ILP), we model and optimize the energy consumption of IP/WDM (IP/WDM) networks with traffic-grooming cross layer designs. Also our study shows the energy savings in IP/WDM network. In addition to that for energy proportionality of network equipment different network schemes are required.
References


Index Terms

Computer Science

Networks

Keywords

Cross-layer Design Optical Networks Minimal Energy Control Network.