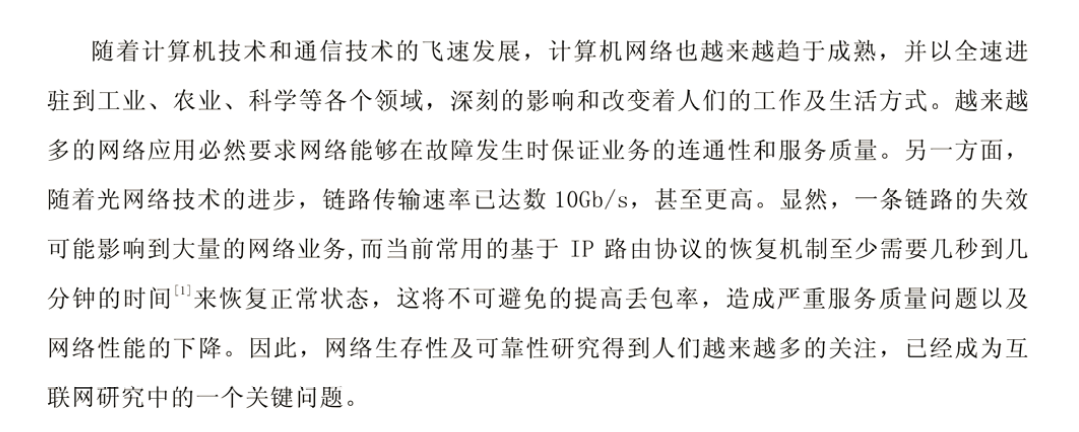
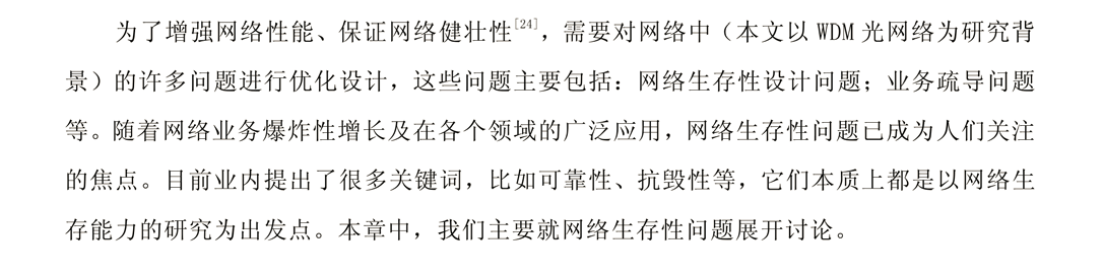


研究背景及意义



网络可生存性的基本原理



“”网络中可靠路由算法的研究“” 15-26

SDN

*Reliability: Fault Tolerance*

To ensure network reliability, SDN should be able to perform

failure recovery transparently and gracefully when failures

occur in the network infrastructure. Although a switch could

identify the failed link, it has neither the intelligence nor the

global knowledge to create a new route. It has to depend on

updates from the controller to establish an alternate route.

Moreover, when the failed node is recovered and goes back

to work, it will still be the duty of the controller to re-establish

the optimal routes and the network topology for the ongoing

traffic. Therefore, we investigate current research efforts and

suggestions on realizing fast failure recovery in SDN networks.