An Analysis of Flooding Algorithms.

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Abstract - Literature review revealed that in all optical network , resource and network topology information has to be constantly updated at every network node , such as IP router, optical switch , etc., so that correct light path decision can be made in a dynamic and distributed networking environment . To update this information IP rotocol OSPF uses flooding ; whenever there is a network topology change , i.e., link or mode up or down, information is flooded throughout the whole network. Since flooding cinsumes excessive communication resources, it poses a serious problem for the scalability of the linkstate protocols. In this paper, we analyze the effects of OSPF flooding in optical networks and discuss the techniques involved in reducing the flooding. It is proposed to have lazy flooding through which is proved that the blocking rate has been reduced to an extent of o.o806 under Fibonacci for a flood delay of 1ooo.