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Fault - Management in Survivable WDM Optical Networks

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Abstract - Literature reported that dynamic light path protection in survivable WDM networks requires finding a pair of diverse routes (i.e., a primary route and a back up route that are link - disjoint)that form a cycle upon the arrival of a new connection request. this paper presents a hybrid adaptive survivability algorithm that combine the positive effects of restoration and protection. The overall goal of the proposed approach is to improve the restoration efficiency by providing a tradeoff between proactive protection and dynamic restoration. Experimental results based on the ns-2 network simulator show that under high loads, the proposed algorithm achieves significantly lower blocking probability than the conventional survivable techniques.