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## Forwarding Loop Avoidance Using Ordered Forwarding Information

Getzi and Jeba

Abstract - Literature reported that a link -state routing protocol is one of the two main classes of routing protocol used in packet -switched networks for computer communications. Examples of link state routing protocols include OSPF and IS-IS . During topology changes the routers converge to update their routing table . Such changes can be off unpredictable changes or planned events. During such convergence transient loops can occur which should be avoided . In this paper we present a mechanism which is based on ordering of the updates of the forwarding table of the routers . the supported topology changes are link transitions from up to down, down to up and updates of link metrics .s Finally we show by simulation that sub - second loop -free convergence is possible on a large Tier -1 ISP network .