

A Path Monitoring Scheme For Reconfigurable Optical Switching Networks

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ABSTRACT

We propose a simple path tracing scheme to retrieve the physical path that an optical data packet has traversed over a reconfigurable optical switching network. Simple algebraic computation of the label value at the receiver is performed to retrieve the list of all nodes traversed as well as the exact order of node traversal. The node labeling is further optimized so that the required length of the label can be minimized.