# Shortest Path Routing in networks & its security

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**Abstract:** *Shortest path routing in networks and its security is presented in this paper. Routing, shortest path routing and routing security are discussed in detailed. Shortest path routing model is of three types, those are destination-based, load-insensitive and minimum hop count or sum of link weights. The shortest path routing network topology with link costs and least cost paths are presented. Shortest-Path is clearly explained by Dijkstra's Algorithm. Router authentication is a part of a total security plan and describes what neighbor router authentication is, how it works, and why you should use it to increase your overall network security.*