The Path Detection (PD) protocol used to select the shortest path and DNAP (Dynamic Non-linear authentication Protocol algorithm) protocol used to find the alternate path to transfer a message to the destination.
To improve the detection accuracy to exploit the correlations between lost packets. Furthermore, to ensure truthful calculation of these correlations, develop a Dynamic Path Routing protocol (DPR) mechanism based dynamic routing privacy preserving protocol architecture that allows the detector to verify the truthfulness of the packet loss information reported by nodes. This architecture is privacy preserving, collusion proof, and incurs low communication and storage overheads. Through extensive simulations and verification proposed mechanism achieves significantly better detection accuracy than conventional methods such as a maximum-likelihood based detection.

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Path Detection Protocol in Wireless AdHoc Networks

An Optimal Dynamic Non-Linear Authentication Algorithm

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