Abstract

Wireless ad-hoc networks is a parent breed to Mobile ad-hoc networks, comprising of many mobile nodes capable of dynamically exchanging data amongst nodes without demanding a centralized infrastructure. Re-routing based Hybrid ACO-PSO based routing algorithm for MANETs have been discussed in this paper and is studied for evaluating its performance. This algorithm is applicable to multi-hop ad-hoc networks with the aim of upgrading the performance of the existing protocol for mobile ad hoc network. The Re-routing based Hybrid strategy is developed and deployed using MATLAB 2013a and the toolbox used is data analysis toolbox. The performance is evaluated by comparing the technique that already exists to the one that is proposed in this paper. The results have shown that the new techniques outperforms the previous technique.

References

Performance Evaluation of Re-Routing based Hybrid ACO-PSO based Routing Algorithm for MANETS

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Index Terms

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MANET, Hybrid ACO-PSO, Ant colony optimization, particle swarm optimization