

From the Fig.6, results obtained by comparing the Ant Colony Optimization, Pheromone Energy Distance (PED)-ACO and Pheromone Energy Distance Mobility (PEDM)-ACO of a graph is plotted with the varying simulation time on x-axis and the Throughput on y-axis.

Table 5 Throughput with ACO, PED-ACO and PEDM-ACO

| Simulation times (ms) | Throughput | | |
|-----------------------|------------|---------|----------|
| | ACO | PED-ACO | PEDM-ACO |
| 2.0000 | 27.0000 | 70.0000 | 90.0000 |
| 4.0000 | 43.0000 | 61.0000 | 105.0000 |
| 6.0000 | 44.0000 | 61.0000 | 154.0000 |
| 8.0000 | 47.0000 | 70.0000 | 151.0000 |
| 10.0000 | 58.0000 | 71.0000 | 167.0000 |

5. Conclusion

In this paper an effective adjustment of enhanced multi criteria routing algorithm PEDM-ACO, enlivened by the ideas of development and self-association in organic frameworks of ants is displayed. Our proposition concentrates essentially on effective routing by avoiding congestion and link breakage marvels. Alongside the effective routing, it additionally performs significant energy utilization. We have assessed and contrasted our algorithm with conventional ACO and PED-ACO algorithms and gotten better results as far as throughput, average delay, pheromone value, and residual energy. The future extension is to bid this proposed plan that can be stretched out to Vehicular Adhoc Networks (VANET). VANET is a GPS (Global Positioning Framework) upheld organize. We are additionally attempting to build up our PEDM-ACO conspire further to support different QoS necessities like Security and Privacy.

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