



Figure 11: Comparative analysis of Network life-time for the AODV protocol and the proposed protocol with and without GA with respect to number of transmission rounds

V. CONCLUSION

In this paper we have analyzed the current state of proposed clustering protocols, particularly regarding their power and reliability prerequisites. In WSNs, the energy confinements of nodes expect a critical part in sketching out any protocol for execution. Likewise, Quality of Service measurements, for example, delay, data loss tolerance, and network lifetime uncover dependability issues when designing recovery mechanisms for clustering plan. These critical aspects are frequently restricted, and one regularly has a negative effect on the other.

Genetic Algorithm has been a mainstream method used to solve optimization issues in WSNs because of its effortlessness, high caliber of result, fast convergence and unimportant computational trouble. Although, iterative nature of GA can preclude its utilization for high-speed real-time applications, particularly if optimization needs to be done frequently. GA obliges a lot of memory, which may utmost its execution to resource-rich base stations. Literature has plenteous effective WSN requisitions that explore the advantages of GA. Data-aggregation requires frequent distributed optimization, and quick results: Thus GA modestly suits it. Static arrangement, localization and cluster are the issues settled simply once on a base station: Thus GA exceedingly suits them.

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