



6. Conclusion

In this paper, we proposed an extension to the RMECR algorithm for wireless ad hoc networks. A-RMECR finds minimum energy routes for reliable packet transmission from a source node to a destination node. Through extensive simulation results, we showed that A-RMECR can significantly increase the operational lifetime of ad hoc networks compared to the similar best known algorithms. It also reduces the energy consumption per packet delivery in the entire network, which increases the energy-efficiency. Furthermore, it can find highly reliable routes. Our results showed that a minimum cost formulation for route selection can balance the load more effectively than a max-min formulation used in other algorithms.

7. References

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