









information to reach all other nodes. First, *to find out nearest neighbors a beacon less query processing method is used In these method, the query-issuing node first forwards a query using geo-routing to the nearest node from the point specified by the query (query point). Then, the nearest node from the query point forwards the query to other nodes close to the query point, and each node receiving the query replies with the information on itself.* Second, to exchange routing information, it sends the periodic route update. Third it packages a converted binary tree to reduce the size of the payload by about a half. Finally, interleave full-dump messages with differential updates so that, in relatively stable networks, the differential updates are much shorter than the full-dump messages. As a result, the routing overhead of PSR is only a fraction or less compared with DSR, Also the traffic is reduced compared with beacon based methods by this experiments.

## 7. Acknowledgement

I would like to express my gratitude to the following people for their support and guidance for the success of this paper. I express my deep sense of gratitude to Mrs. Ann Susan Vargheese, Assistant Professor, ECE, MZC Kadammanitta, PTA, Kerala India. I deeply indebted to Dr.Rajaram N, Principal, MZC, PTA, Kerala.

## References

- [1] Zehua, Wang, Student Member, IEEE Chen, Member, IEEE, and Cheng Li, Senior Member, IEEE“PSR: A Lightweight Proactive Source Routing Protocol For Mobile Ad Hoc Networks” IEEE Trans. On Vehic Tech, Vol. 63, No. 2, Feb 2014
- [2] P. Larsson, “Selection diversity forwarding in a multihop packet radio network with fading channel and capture,” *ACM Mobile Comput. Commun. Rev.*, vol. 5, no. 4, pp. 47–54, Oct. 2013.
- [3] T.-Y. Fu, W.-C. Peng, and W.-C. Lee, “Parallelizing itinerary-based KNN query processing in wireless sensor networks,” *IEEE Trans. Knowl. Data Eng.*, vol. 22, no. 5, pp. 711–729, May 2010.
- [4] S.-H. Wu, K.-T. Chuang, C.-M. Chen, and M.-S. Chen, “Toward the optimal itinerary-based KNN query processing in mobile sensor networks,” *IEEE Trans. Knowl. Data Eng.*, vol. 20, no. 12, pp. 1655–1668, Dec. 2008.
- [5] Y. Xu, T.-Y. Fu, W.-C. Lee, and J. Winter, “Processing k nearest neighbor queries in location-aware sensor networks,” *Signal Process.*, vol. 87, no. 12, pp. 2861–2881, 2007.
- [6] Y. Xu, W.-C. Lee, J. Xu, and G. Mitchell, “Processing window queries in wireless sensor networks,” in *Proc. ICDE*, 2006, p. 70.
- [7] S. Murthy, “Routing in packet-switched networks using path-finding algorithms,” Ph.D. dissertation, Comput. Eng., Univ. California, Santa Cruz, CA, USA, 2012.
- [8] M. Al-Rabayah and R. Malaney, “A new scalable hybrid routing protocol for VANETs,” *IEEE Trans. Veh. Technol.*, vol. 61, no. 6, pp. 2625–2635, Jul. 2011.
- [9] R. Rajaraman, “Topology control and routing in ad hoc networks: A survey,” *ACM SIGACT News*, vol. 33, no. 2, pp. 60–73, Jun. 2009.
- [10] Y. P. Chen, J. Zhang, and I. Marsic, “Link-layer-and-above diversity in multi-hop wireless networks,” *IEEE Commun. Mag.*, vol. 47, no. 2, pp. 118–124, Feb. 2002.
- [11] J. Behrens and J. J. Garcia-Luna-Aceves, “Distributed, scalable routing based on link-state vectors,” in *Proc. ACM Conf. SIGCOMM*, 1994, pp. 136–147.
- [12] C. E. Perkins and P. Bhagwat, “Highly dynamic Destination-Sequenced Distance-Vector Routing (DSDV) for mobile computers,” *Comput. Commun.Rev.*, vol. 24, pp. 234–244, Oct. 1994

## Author Profile



**Nijina A** received the B.Tech degrees in Electronics and Communication Engineering from Kerala University at SHM College of Engineering in 2013. And now she is pursuing her M.Tech degree in Communication Engineering under the M.G University in Mount Zion College of Engineering.