











- networks,” *Computer Communications*, Vol. 30, No. 1415, pp. 2954 – 2967, 2007.
- [5] M. Ahmadi Livani and M. Abadi, “An energy-efficient anomaly detection approach for wireless sensor networks,” *Proceedings of 5th International Symposium on Telecommunications*, pp. 243–248, 2010.
- [6] N. Ahmed, S. S. Kanhere, and S. Jha, “The holes problem in wireless sensor networks: a survey,” *Association for Computing Machinery Special Interest Group on Mobility of systems, Users, Data, and Computing (ACM SIGMOBILE)*, Review 9, No. 2, pp. 4–18, April. 2005.
- [7] Q. Fang, J. Gao, and L. Guibas, “Locating and bypassing holes in sensor networks,” *Mobile Networks and Applications*, Vol. 11, No. 2, pp. 187–200, 2006.
- [8] S. Lai and B. Ravindran, “Least-latency routing over time-dependent wireless sensor networks,” *IEEE Transactions on Computers*, Vol. 62, No. 5, pp. 969–983, 2013.
- [9] W. Liu, H. Nishiyama, N. Ansari, J. Yang, and N. Kato, “Cluster-based certificate revocation with vindication capability for mobile ad hoc networks,” *IEEE Transaction on Parallel Distributed System*, Vol. 24, No. 2, pp. 239–249, Feb. 2013.
- [10] S. Chen, G. Fan, and J. hong Cui, “Avoid ‘void’ in geographic routing for data aggregation in sensor networks,” *International Journal of Ad Hoc and 2016*.
- [11] Ashwini and A. S., “Information dissemination between nodes of different intersections intersection in city environment using hop greedy routing protocol (BAHG),” *Int. J. Ethics Eng. Manag. Educ.*, vol. 1, no. 4, pp. 232–236, Apr. 2014
- [12] S. Subramanian, S. Shakkottai, and P. Gupta, “On optimal geographic routing in wireless networks with holes and non-uniform traffic,” in *Proc. IEEE 26th Int. Conf. Comput. Commun.*, May 2007, pp. 1019–1027
- [13] H. Nakayama, N. Ansari, A. Jamalipour, and N. Kato, “Faultresilient sensing in wireless sensor networks,” *Comput. Commun.*, vol. 30, no. 11-12, pp. 2375–2384, Sep. 2007.