

## Daftar Pustaka

- [1] Prerna and S. Kumar, “Energy efficient clustering algorithm for WSN,” *2nd Int. Conf. Signal Process. Integr. Networks, SPIN 2015*, pp. 990–993, 2015.
- [2] T. Winter *et al.*, “RPL- IPv6 Routing Protocol for Low-Power and Lossy Networks,” *Internet Eng. Task Force (IETF), Req. Comments 6550, ISSN2070-1721*, pp. 1–157, 2012.
- [3] A. Velinov and A. Mileva, “Running and Testing Applications for Contiki OS Using Cooja Simulator,” *Int. Conf. Inf. Technol. Dev. Educ.*, pp. 279–285, 2016.
- [4] S. B. Pratama, R. Munadi, and A. Syauqi, “Analisis Performansi Protokol CoAP Dan MQTT-SN Pada Sistem Smarthome Dengan Cooja Network Simulator,” *Informatics J.*, vol. 5, no. 2, pp. 1982–1991, 2018.
- [5] G. Chelius, C. I. De Lyon, A. Fraboulet, I. Compsys, and E. Fleury, “Demonstration of Worldsens : A Fast Prototyping and Performance Evaluation of Wireless Sensor Network Applications & Protocols,” *Distrib. Comput. J.*, pp. 131–133, 2006.
- [6] C. I. De Lyon *et al.*, “Worldsens : From Lab to Sensor Network Appli catmion Development and Deployment Figurlie2 : Cpueo cacheergrin toole usedeto vsalize,” *Dev. Joural*, 2007.
- [7] S. Kharche and S. Pawar, “Node level energy consumption analysis in 6LoWPAN network using real and emulated Zolertia Z1 motes,” *2016 IEEE Int. Conf. Adv. Networks Telecommun. Syst. ANTS 2016*, pp. 1–5, 2017.
- [8] M. Banh, H. Mac, N. Nguyen, K. H. Phung, N. H. Thanh, and K. Steenhaut, “Performance evaluation of multiple RPL routing tree instances for Internet of Things applications,” *Int. Conf. Adv. Technol. Commun.*, vol. 2016-Janua, pp. 206–211, 2016.
- [9] C. Thomson, I. Wadhaj, I. Romdhani, and A. Al-Dubai, “Performance evaluation of RPL metrics in environments with strained transmission ranges,” *Proc. IEEE/ACS Int. Conf. Comput. Syst. Appl. AICCSA*, 2017.
- [10] L. Ben Saad, C. Insa-lyon, E. N. S. Lyon, C. Chauvenet, B. Tourancheau, and C. I. Inria, “Simulation of the RPL Routing Protocol for IPv6 Sensor Networks : two cases studies,” *Int. Informatics*, vol. 2011, no. c, pp. 128–133, 2011.
- [11] A. Nugraha, “Analisis Kualitas Layanan Jaringan VSAT Ditinjau dari Delay, Throughput, dan Packet Loss,” *Informatics J.*, 2015.
- [12] B. A. Bagula and Z. Erasmus, “IoT Emulation With Cooja,” *Informatics J.*, no. March, pp. 1–44, 2015.
- [13] A. Velinov and A. Mileva, “Power consumption analysis of application layer protocols for the Internet of things,” *Adv. Intell. Syst. Comput.*, vol. 665, pp. 193–202, 2018.