











who use mobile devices are connecting to network using wireless connection than wired connection. Furthermore, the QoS is required when transmitting the packets from the wireless node.

## 7. Acknowledgement

The authors would like to thank Tshwane University of Technology for financial support. The authors declare that there is no conflict of interest regarding the publication of this paper.

## 8. References

- [1] P. Grover, P. Singh, and S. Rani, "Congestion Reduction in Wireless Mesh Networks," *International Journal of Computer Applications*, vol. 124, 2015.
- [2] B. Prabhu, M. Pradeep, and E. Gajendran, "Military Applications of Wireless Sensor Network System," 2017.
- [3] T. E. Mathonsi and O. P. Kogeda, "Enhanced Bandwidth Sharing Scheme for Small and Medium Enterprises," in *Proceedings of the World Congress on Engineering and Computer Science*, 2014.
- [4] U. Varshney and R. Vetter, "Emerging mobile and wireless networks," *Communications of the ACM*, vol. 43, pp. 73-81, 2000.
- [5] G. Maheshwari, M. Gour, and U. K. Chourasia, "A survey on congestion control in MANET," *International Journal of Computer Science and Information Technologies (IJCSIT)*, vol. 5, pp. 998-1001, 2014.
- [6] B. Hull, K. Jamieson, and H. Balakrishnan, "Mitigating congestion in wireless sensor networks," in *Proceedings of the 2nd international conference on Embedded networked sensor systems*, 2004, pp. 134-147.
- [7] V. Padmanabhan, "Coordinating Congestion Management and Bandwidth Sharing for Heterogeneous Data Streams," in *Proceedings of NOSSDAV*, 1999.
- [8] T. E. Mathonsi and O. P. Kogeda, "Implementing wireless network performance optimization for Small and Medium Enterprises," in *Science, Computing and Telecommunications (PACT), 2014 Pan African Conference on*, 2014, pp. 68-73.
- [9] J. Song and L.-m. Li, "Packet scheduling algorithms in wireless networks," *JOURNAL-CHINA INSTITUTE OF COMMUNICATIONS*, vol. 24, pp. 42-48, 2003.
- [10] U. K. Jigo, "STATE OF THE ART SURVEY ON CONGESTION CONTROL PROTOCOL IN CONSTRAINED NETWORKS," 2016.
- [11] Y. V. Kumar, A. B. Reddy, B. R. Reddy, and D. Abhishekh, "Bandwidth Management in Wireless Mesh Networks," *International Journal of Scientific & Engineering Research*, vol. 4, pp. 1-5, 2013.
- [12] S. Mani and R. Ponraj, "Optimization With Congestion Aware Routing In Mesh Topology Optimization With Congestion Aware Routing In Mesh Topology."
- [13] B. Ramesh and D. Manjula, "CA-AODV: Congestion adaptive AODV routing protocol for streaming video in mobile ad hoc networks," *Int'l J. of Communications, Network and System Sciences*, vol. 2008, 2008.
- [14] Y. Li, H. Long, M. Peng, and W. Wang, "Spectrum sharing with analog network coding," *IEEE Transactions on Vehicular Technology*, vol. 63, pp. 1703-1716, 2014.
- [15] A. H. M. Rad and V. W. Wong, "Joint optimal channel assignment and congestion control for multi-channel wireless mesh networks," in *Communications, 2006. ICC'06. IEEE International Conference on*, 2006, pp. 1984-1989.
- [16] B. K. Gupta, S. Patnaik, M. K. Mallick, and A. K. Nayak, "Dynamic routing algorithm in wireless mesh network," *International Journal of Grid and Utility Computing*, vol. 8, pp. 53-60, 2017.
- [17] J. He, O. Yang, Y. Zhou, and O. Issa, "Multipath Routing Optimization with Interference Consideration in Wireless Ad hoc Network," in *Ad Hoc Networks*, ed: Springer, 2017, pp. 258-269.