



























- [4] J. Shuja, S. A. Madani, K. Bilal, K. Hayat, S. U. Khan, and S. Sarwar, "Energy-efficient data centers," *Computing*, Vol. 94, No. 12, 2012, pp. 973-994.
- [5] QualNet 6.1 Sensor Networks Model Library, September 2012, pp. 14, Scalable Network Technologies, Inc., <http://www.scalable-networks.com>
- [6] Liu Yanfei, Wang Cheng, Qiao Xiaojun, Zhang Yunhe, Yu chengbo, Liu Yanfei, "An Improved Design of ZigBee Wireless Sensor Network", IEEE 2009.
- [7] Chia-Ping Huang, "Zigbee Wireless Network Application Research Case Study Within Taiwan University Campus", Proceedings of the Eighth International Conference on Machine Learning and Cybernetics, Baoding, 12-15 July 2009.
- [8] Y. Zatout, R. Kacimi, J-F. Llibre and E. Campo: Mobility-aware Protocol for Wireless Sensor Networks in Health-care Monitoring: Fifth IEEE: International Workshop on Personalized Networks, USA (2011).
- [9] S. Zhao and D. Raychaudhuri: Multi-tier Ad hoc Mesh Networks with Radio Forwarding Nodes: IEEE Global Telecommunications Conference, IEEE GLOBECOM 2007, Washington, USA (2007).
- [10] M. Bandari, R. Simon and H. Aydin, "Energy management of embedded wireless systems through voltage and modulation scaling under probabilistic workloads," *2014 International Green Computing Conference (IGCC)*, DALLAS, TX, USA, 2014, pp. 1-10. doi:10.1109/IGCC.2014.7039168
- [11] Usman, Saeeda & U. Khan, Samee & Khan, Sikandar. (2013). A comparative study of voltage/frequency scaling in NoC. *IEEE International Conference on Electro Information Technology*. 1-5. 10.1109/EIT.2013.6632716.
- [12] U. Kulau, F. Busching and L. Wolf, "A Node's Life: Increasing WSN Lifetime by Dynamic Voltage Scaling," *2013 IEEE 9th International Conference on Distributed Computing in Sensor Systems (DCoSS 2013) (DCOSS)*, Cambridge, MA, 2013, pp. 241-248. doi:10.1109/DCOSS.2013.39
- [13] Bahareh Gholamzadeh, and Hooman Nabovati, "Concepts for Designing Low Power Wireless Sensor Network World Academy of Science, Engineering and Technology," *International Journal of Electronics and Communication Engineering*, Vol: 2, No: 9, 2008.
- [14] R. Sharma, B.S Sohi, N. Mittal, "Hierarchical Energy Efficient MAC protocol for Wireless Sensor Networks". *International Journal of Applied Engineering Research*, Volume 12, Number 24, 2017, pp. 14727-14738.
- [15] R. Sharma, B.S Sohi, Amar Singh and Shakti Kumar, "ANN Based Framework for Energy Efficient Routing In Multi-Hop WSNs". *International Journal of Advanced Research in Computer Science*, Vol. 8, No.5, 2017.
- [16] R. Sharma, B.S Sohi, "A Comparative Study on MAC Protocols for Wireless Sensor Networks on Energy Reduction". *International Journal of Computer Science and Information Security*, 15(11), 2017, pp 35-40.
- [17] H. Aydin, R. Melhem, D. Mosse, and P. Mejia-Alvarez, "Power-aware scheduling for periodic real-time tasks," *IEEE Trans. on Computers*, vol. 53, no. 5, pp. 584-600, 2004.
- [18] S. Reda, R. Cochran, and A. K. Coskun, "Adaptive power capping for servers with multi-threaded workloads," *International Symposium on Microarchitecture (MICRO '12)*, Vol. 32, No. 5, Aug. 2012, pp. 64-75.
- [19] C. O. Diaz, M. Guzek, J. E. Pecero, P. Bouvry, and S. U. Khan, "Scalable and energy-efficient scheduling techniques for large-scale systems," *International Conference on Computer and Information Technology (CIT '11)*, Sept. 2011, pp. 641-647.
- [20] S. U. Khan and I. Ahmad, "A cooperative game theoretical technique for joint optimization of energy consumption and response time in computational grids," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 20, No. 3, Mar. 2009, pp. 346-360.
- [21] S. U. Khan and N. Min-Allah, "A goal programming based energy efficient resource allocation in data centers," *Journal of Supercomputing*, Vol. 61, No. 3, Sept. 2012, pp. 502-519.
- [22] P. Lindberg, J. Leingang, D. Lysaker, K. Bilal, S. U. Khan, P. Bouvry, N. Ghani, N. Min-Allah, and J. Li, "Comparison and analysis of greedy energy-efficient scheduling algorithms for computational grids," in *Energy Aware Distributed Computing Systems*, A. Y. Zomaya and Y.-C. Lee, Eds., John Wiley & Sons, Hoboken, NJ, USA, 2012, ISBN 978-0-470-90875-4, Chapter 7.
- [23] W. Dargie, "Dynamic power management in wireless sensor networks: State-of-the-art," *Sensors Journal*, IEEE, vol. 12, no. 5, pp. 1518-1528, may 2012.
- [24] G. L. Valentini, W. Lassonde, S. U. Khan, N. Min-Allah, S. A. Madani, J. Li, L. Zhang, L. Wang, N. Ghani, J. Kolodziej, H. Li, A. Y. Zomaya, C.-Z. Xu, P. Balaji, A. Vishnu, F. Pinel, J. E. Pecero, D. Kliazovich, and P. Bouvry, "An overview of energy efficiency techniques in cluster computing systems," *Cluster Computing*, Vol. 16, No. 1, Mar. 2013, pp. 3-15.
- [25] S. Zeadally, S. U. Khan, and N. Chilamkurti, "Energy efficient networking: past, present, and future," *Journal of Supercomputing*, Vol. 62, No. 3, Dec. 2012, pp. 1093-1118.
- [26] X. Jin and S. Goto, "Hilbert transform-based workload prediction and dynamic frequency scaling for power efficient video encoding," *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, Vol. 31, No.5, May 2012, pp. 649-661.
- [27] U. Tietze and C. Schenk, *Electronic Circuits: Handbook for Design and Application*. Secaucus, NJ, USA: Springer-Verlag New York, Inc., 2007.