

Faculty Profile



Name: Dr. R. BALAMURALI

Designation: Senior Assistant Professor

Teaching Areas: Operating Systems, Computer Organization & Architecture, Data Structures, Data Wrangling, Artificial Intelligence

Research Interests: Wireless Sensor Networks, Machine Learning, Deep Learning

Education:

- Ph.D, SRM University, Chennai, 2017
- M.Tech, Sathyabama University, Chennai, 2008
- B.E, Manonmaniam Sundaranar University, Chennai, 2002

Research / Selected Publications:

1. R. Balamurali and K. Kathiravan, "An analysis of various routing protocols for Precision Agriculture using Wireless Sensor Network," 2015 IEEE Technological Innovation in ICT for Agriculture and Rural Development (TIAR), Chennai, India, 2015, pp. 156-159, doi: 10.1109/TIAR.2015.7358549.
2. Balamurali, R. and Kathiravan, K.. "Mitigating Hot Spot Problems in Wireless Sensor Networks Using Tier-Based Quantification Algorithm" Cybernetics and Information Technologies, vol.16, no.1, 2016, pp.73-79. <https://doi.org/10.1515/cait-2016-0005>
3. Balamurali, R., Lall, P.B., Taneja, K., Krishna, G. (2022). Detecting Human Emotions Through Physiological Signals Using Machine Learning. In: Raje, R.R., Hussain, F., Kannan, R.J. (eds) Artificial Intelligence and Technologies. Lecture Notes in Electrical Engineering, vol 806. Springer, Singapore. https://doi.org/10.1007/978-981-16-6448-9_57
4. Balamurali, R. and Kathiravan, K, A Survey on Mitigating Hotspot Problems in Wireless Sensor Networks, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 3 (2015) pp. 5913-5921
5. Sandeep Kumar Panda, Vaibhav Mishra, R. Balamurali, Ahmed A. Elngar, Artificial Intelligence and Machine Learning in Business Management, CRC Press, 2022
6. Balamurali, R., Kathiravan, K. and Krishnan, T.. "Mitigating Hotspot Issue in WSN Using Sensor Nodes with Varying Initial Energy Levels and Quantification Algorithm" Cybernetics and Information Technologies, vol.19, no.3, 2019, pp.118-136. <https://doi.org/10.2478/cait-2019-0029>