



NANDHA ENGINEERING COLLEGE

(An Autonomous institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2022-2023

FACULTY JOURNAL PUBLICATION

S.No	Description	Count
1	SCI/SCIE Indexed	4
2	Scopus Indexed Journal	1
3	Scopus Indexed Conference	6
Total Publication		11

- Jayakumar, T., G. Ramani, P. Jamuna, B. Ramraj,** Gokul Chandrasekaran, C. Maheswari, Albert Alexander Stonier, Geno Peter, and Vivekananda Ganji. 2023. "Investigation and Validation of PV Fed Reduced Switch Asymmetric Multilevel Inverter Using Optimization Based Selective Harmonic Elimination Technique." *Automatika* 64 (3): 441–52. doi:10.1080/00051144.2023.2173121. ([SCI Index Journal](#))
- Sengottaiyan, S. M., Rajaiah, J., Shanmugasundaram, R., & **Ponnusamy, J.** (2023). Sensor Failure Identification And Segregation Using Wavelet Performance Analysis For Wsn Based Status Surveillance System Of A Wind Turbine. *International Journal of Industrial Engineering*, 30(3). ([SCI Index Journal](#))
- Thangavel, Jayakumar,** Gnanavel Chinnaraj, Gokul Chandrasekaran, and Vanchinathan Kumarasamy. "Design and development of solar photovoltaic fed modular multilevel inverter using intelligent techniques for renewable energy applications." *Journal of Intelligent & Fuzzy Systems* 44, no. 2 (2023): 1807-1821. ([SCI Index Journal](#))
- Kumar, Neelam Sanjeev, Gokul Chandrasekaran, **Jayakumar Thangavel,** Vanchinathan K, Neeraj Priyadarshi, M. S. Bhaskar, Mohamed G. Hussien, Fayez FM El-Sousy, and Mosaad M. Ali. "A novel design methodology and numerical simulation of BLDC motor for power loss reduction." *Applied Sciences* 12, no. 20 (2022): 10596. ([SCI Index Journal](#))
- Karthick, S., Shankar, P. V., **Jayakumar, T.,** Suba, G. M., Quadir, M., & Paul Roy, A. T. (2023). A novel approach for integrated shortest path finding algorithm (ISPSA) using mesh topologies and networks-on-chip (NOC). *International Journal on Recent and Innovation Trends in Computing and Communication*, 11, 87-95 ([Scopus Index Journal](#))



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6. Sasikanth, S., **Arun Kumar**, Neelam Sanjeev Kumar, and G. Pradeepkumar. "IoT based Food Spoilage Detection Monitoring using Blynk." In 2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS), vol. 1, pp. 1093-1098. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
7. Keerthana, S., **S. Elango**, T. Judgi, K. S. Vivek, P. Ponmurugan, and Neelam Sanjeev Kumar. "Internet of Things based Smart Water Leakage Monitoring and Alert System." In 2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS), vol. 1, pp. 1375-1380. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
8. **Jamuna, P.**, V. Bharathi, A. Loganayaki, Praful Nandankar, and Neelam Sanjeev Kumar. "IoT Based Energy Efficient Smart Metering System." In 2023 Second International Conference on Electronics and Renewable Systems (ICEARS), pp. 607-612. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
9. Pradeepkumar, G., **M. Prabu**, Manimuthu Ayyannan, V. G. Pratheep, S. Revathi, and Neelam Sanjeev Kumar. "Healing And Preventing Trees From Beetles Usingpesticides." In 2023 International Conference on Computer Communication and Informatics (ICCCI), pp. 1-5. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
10. **Ramani, G.**, G. Pradeepkumar, P. N. Palanisamy, Velappagari Sekhar, and Neelam Sanjeev Kumar. "Smart attendance monitoring system using iot." In 2023 9th International Conference on Advanced Computing and Communication Systems (ICACCS), vol. 1, pp. 1099-1104. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))
11. Pradeepkumar, G., **B. Ramraj**, Manimuthu Ayyannan, Rohith Bhat, and Neelam Sanjeev Kumar. "Internet of Things (IoT) Feedback System using Raspberry Pi." In 2023 7th International Conference on Computing Methodologies and Communication (ICCMC), pp. 1399-1404. IEEE, 2023. ([IEEE Xplore](#), [Scopus Index Conference](#))

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