

Vishnupur, Bhimavaram – 534202: West Godavari Dist. A.P.

Department of Electrical and Electronics Engineering

2022^{*} FACULTY PUBLICATIONS

1. Nasir A.W., Kasireddy I., Tiwari R., Ahmed B.K.I., Furquan A. (2022) Data-Based Tuning of PI Controller for First-order System. In: Bhaumik S., Chattopadhyay S., Chattopadhyay T., Bhattacharya S. (eds) Proceedings of International Conference on Industrial Instrumentation and Control. Lecture Notes in Electrical Engineering, vol 815. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-7011-4_52</u>

1. Jnaneswar, K., Mallikarjuna, B., Devaraj, S. et al. A real-time DWT and traveling waves-based multi-functional scheme for transmission line protection reinforcement. Electr Eng 103, 965–981 (2021). <u>https://doi.org/10.1007/s00202-020-01117-0</u>

2. Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring," in IEEE Sensors Journal, vol. 20, no. 15, pp. 8213-8222, 1 Aug.1, 2020, doi: 10.1109/JSEN.2020.2986087.

3. Balimidi Mallikarjuna; Rishabh Devagupta; Maddikara Jaya Bharata Reddy; Dusmanta Kumar Mohanta, S. Saravanan, K. Karunanithi and S. Pragaspathy, A Novel Topology for Bidirectional Converter with High Buck Boost Gain, Journal of Circuits, Systems and Computers, Vol. 29, No. 14, 2050222 (2020).

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5. S. Pragaspathy, Ch. Phani Kumar, V.S.N. Narasimha Raju, Kalyan Sagar Kadali, S. Saravanan, A high gain multi-port bidirectional converter with reduced voltage stress, Materials Today: Proceedings, 2021.

6. S. Menaga, J. Paruvathavardhini, S. Pragaspathy, R. Dhanapal, D. Jebakumar Immanuel, An efficient biometric based authenticated geographic opportunistic routing for IoT applications using secure wireless sensor network, Materials Today: Proceedings, 2021.

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8. Ch. Phani Kumar; S. Pragaspathy; V. Karthikeyan; K. N. S. Durga Prakash, Power Quality Improvement for a Hybrid Renewable Farm Using UPQC, International Conference on Artificial Intelligence and Smart Systems (ICAIS), 25-27 March 2021. https://ieeexplore.ieee.org/document/9396048 9. B.N. Ch.V. Chakravarthi; P. Naveen; S. Pragaspathy; V S N Narasimha Raju, Performance of Induction Motor with hybrid Multi level inverter for Electric vehicles, International Conference on Artificial Intelligence and Smart Systems (ICAIS), 25-27 March 2021.

https://ieeexplore.ieee.org/document/9395885

10. Saravanan S., Kalaiyarasi M., Karunanithi K., Karthi S., Pragaspathy S., Kadali K.S. (2022) Iot Based Healthcare System for Patient Monitoring. In: Nayak P., Pal S., Peng SL. (eds) IoT and Analytics for Sensor Networks. Lecture Notes in Networks and Systems, vol 244. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-2919-</u>8 40

11. Ramu Bhukya1, KalyanSagar Kadali2, Asapu Siva3, Y T R Palleswari1, Pragaspathy2 and S Saravanan3, Experimental Validation with FPGA Controller to A Switched-Capacitor Interleaved Bidirectional DC-DC Converter for A Renewable Energy Storage Systems, Journal of Physics: Conference Series, 2021.

12. Nilesh, Idamakanti Kasireddy, Design of PID controller using strawberry algorithm for load frequency control of multi-area interconnected power system with and without non-linearity, EPREC 2021.(Accepted)

13. I V Vijetha, Analysis of 3-Phase DC Power Converter for Fuel cell, International Conference on Communication and Electronic systems, 2021.(Accepted)

14. Kasireddy I., Nasir A.W., Rahul, Rama Rao R.V.D. (2021) Stable Zones of Fractional Based Controller for Two-Area System Having Communication Delay. In: Sheth A., Sinhal A., Shrivastava A., Pandey A.K. (eds) Intelligent Systems. Algorithms for Intelligent Systems. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-2248-9_14</u>

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Bhoopal, N., Rao, D.S.M., Narukullapati, B.K., Kasireddy, I., Kumar, D.G. (2021). Selective harmonic elimination based THD minimization of a symmetric 9-level inverter using ant colony optimization. Mathematical Modelling of Engineering Problems, Vol. 8, No. 5, pp. 769-774. https://doi.org/10.18280/mmep.080512

17. Ramesh, K., Madasu, S. D., & Kasireddy, I. (2022). Real-Time Monitoring of Smart Meters Based on Blockchain Technology. In N. Jain, J. Maherchandani, N. Agrawal, & T. Gupta (Ed.), Optimal Planning of Smart Grid With Renewable Energy Resources (pp. 208-218). IGI Global. <u>https://doi.org/10.4018/978-1-6684-4012-</u> <u>4.ch007</u>

18. S. Pragaspathy, Photovoltaic based Hybrid Integration of DC Microgrid into Public Ported Electric Vehicle, CRC Press (Taylor & amp; Francis), 2021.(Accepted)

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20. VSN NarasimhaRaju, M Premalatha, S Pragaspathy, NSDP Korlepara, Implementation of Instantaneous Symmetrical Component Theory based Hysteresis Controller for DSTATCOM, 2021 International Conference on Advancements in Electrical, Electronics, 2021.

21. R. Sureshkumar1, S. J. Suji Prasad2, G. Karthikeyan3, Ch. Phani Kumar4, and S.V. Pravina, Three phase induction motor position control using V20 drive, AIP Conference Proceedings, Volume 2387, Issue 1, 2021. 10.1063/5.0068770.

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23. Mamatha, Grounding technology in floating solar PV applications, 5th International conference on electronics, communication and Aerospace Technology, 2021.(Accepted)

24. S Pragaspathy, RVD Rama Rao, KNSD Prakash, Analysis and Appropriate Choice of Power Converters for Electric Vehicle Charging Infrastructure, ICAIS 2022.(accepted)

25. B. Swamy, N. Veeraiah, E. Nagaraju and B. N. C. V. Chakravarthi, "Review of Non-Conventional power electronic converters for Solar PV with Non-linear loads," 6th International Conference on Communication and Electronics Systems (ICCES), 2021, pp.358-361.

26. I. Kasireddy, A. W. Nasir, S. K. Reddy, N. Veeraiah, "Determination of stable zones of LFC for a power system considering communication delay," International Conference on Research in Sciences, Engineering and Technology (ICRSET 2021), February 12-13, 2021.

27. Ch. Phani Kumar, N. Veeraiah, P.Naveen "Mitigation of Uncertainties in Hybrid Renewable Energy Systems" has been published in International Journal of Engineering Research & amp; Technology (IJERT) during January, 2021 Vol. 10 Issue 01, January-2021 ISSN: 2278-0181

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B. Mallikarjuna, D. Rishabh, M. Jaya Bharata Reddy and D. K. Mohanta, "Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring" IEEE Sensors Journal, vol. 20, no. 15, pp. 8213-8222, 2020.

3. Saravanan, S., K. Karunanithi, and S. Pragaspathy. "A Novel Topology for Bidirectional Converter with High Buck Boost Gain" Journal of Circuits, Systems and Computers, vol. 29, no. 14, pp. 2050222, 2020.

1. S. Pragaspathy and B. Anand, "An Experimental Validation on Adaptive Controllers in Tracking and Smoothening of Wind Power for a Variable-Speed System", Journal of Testing and Evaluation, vol. 47, no. 4 pp. 2405-2434, 2019

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2. V. Karthikeyan, S. Rajasekar, S. Pragaspathy and F. Blaabjerg, "A High Efficient DAB Converter under Heavy Load Conditions Using Inner Phase Shift Control," 2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), IIT Madras, India, 2018, pp. 1-6, doi: 10.1109/PEDES.2018.8707705.