



Vishnu Institute of Technology (Autonomous) VISHNUPUR: BHIMAVARAM

FACULTY PUBLICATIONS (EEE) : 2023

JOURNALS:

1. Kumar A., Dash A.P., Ray A.K., Sethy P., **Kasireddy I.**, Unsteady mixed convective flow of hybrid nanofluid past a rotating sphere with heat generation/absorption: an impact of shape factor, International Journal of Numerical Methods for Heat and Fluid Flow, Vol. 33, (11), PP. 3691-3715, 2023 (Scopus) (WoS)
2. Naveen P., Baskaran B., **Rao R.V.D.R.**, Transformer-Less Novel Hybrid Converter Based Solar PV fed UPS System, Journal of Circuits, Systems and Computers, Vol. 32, (8), PP. (2350133) 01-23, 2023 (Scopus) (WoS)
3. Bheemraj T.S., Anil Kumar Y., Karthikeyan V., **Pragaspathy S.**, A Hybrid Structured High Step-Up DC-DC Converter for Integration of Energy Storage Systems in Military Applications, IEEE Transactions on Circuits and Systems II: Express Briefs, Vol. 70, (4), PP. 1545-1549, 2023 (Scopus) (WoS)
4. Chittala P.K., Elanchezhian E.B., **Subramani P.**, Concurrent UPQC Schemes for the Power Quality Improvement in Solar Photovoltaic Systems, Recent Advances in Electrical and Electronic Engineering, Vol. 16, (7), PP. 763-774, 2023 (Scopus) (WoS)
5. Kumar D.G., Sireesha N.V., Rao D.S.N.M., **Kasireddy I.**, Narukullapati B.K., Gatla R.K., Babu P.C., Saravanan S., Modelling of symmetric switched capacitor multilevel inverter for high power appliances, Journal of New Materials for Electrochemical Systems, Vol. 26, (1), PP. 18-25, 2023 (Scopus)

CONFERENCES:

1. Kumar D.G., Nagineni V.S., Sivanaga Malleswara Rao D., **Idamakanti K.**, Bacha B.T., Karunanithi K., Modelling of a Novel Eight Switch 15-Level Asymmetric Inverter for PV Sources, 2023 International Conference on Energy, Materials and Communication Engineering, ICEMCE 2023, pp. 1-6, 2023 (Scopus)
2. Swaroop K.P., Duvvuri S.S., Varma S.D.K., Garapati D.P., Koduri O., **Narasimharaju V.S.N.**, Ultra-Gain DC-DC Converter fed 3- \hat{I} Inverter for Variable-Speed Drive Applications, 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control, STPEC 2023, pp. 1-6, 2023 (Scopus)

3. Swaroop K.P., Duvvuri S.S., Varma S.D.K., Garapati D.P., Koduri O., **Narasimharaju V.S.N.**, Polyphase DC-DC Boost Converter fed 3- ϕ Inverter for Induction Motor Drives, 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control, STPEC 2023, pp. 1-6, 2023 (Scopus)
4. Prasad Babu P.K.V., Geethasri D., Padmaja K.D., **Pragaspathy S.**, Karthikeyan V., Sudagar M., An Intelligent Controller-based Water Pumping Applications Driven by Solar Power, Proceedings of the 5th International Conference on Inventive Research in Computing Applications, ICIRCA 2023, PP. 1555-1559, 2023 (Scopus)
5. Kalaiyarasi M., Saravanan S., Narukullapati B.K., **Kasireddy I.**, Naga Malleswara Rao D.S., Nagineni Venkata Sireesha D., Analysis of SAR Images De-speckling using a Bilateral filter and Feed Forward Neural Networks, 2023 2nd International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2023, pp. 1-6, 2023 (Scopus)
6. Duvvuri S.S.S.R.S., Swaroop K.P., Varma S.D.K., Gogula S., Duvvury V.S.B.C., **Raju V.S.N.N.**, Broken Rotor Bar Fault in 3- ϕ Squirrel-Cage Induction Motors: A Critical Observations, 2023 International Conference on Power, Instrumentation, Control and Computing, PICC 2023, pp. 1-6, 2023 (Scopus)
7. Sahoo S., Mahesh V., Narukullapati B.K., **Kasireddy I.**, Padhan D.G., Naga Malleswara Rao D.S., Control System Engineering through MATLAB-A Case Study on Project based Learning, 2nd Edition of IEEE Delhi Section Owned Conference, DELCON 2023 - Proceedings, pp. 1-5, 2023 (Scopus)
8. Chandrasekaran R., Karthikkumar S., Sheela A., **Subramani P.**, Aravindh G., Rajkumar P., Optimal Control of Solar PV Fed EV Charging Station Using PSO Algorithm, 2023 3rd International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies, ICAECT 2023, pp. 1-6, 2023 (Scopus)
9. **Kasireddy I.**, Padmini K., **Ramarao R.V.D.**, **Seshagiri B.**, **Rani B.V.N.**, Solar Energy Prediction using Machine Learning with Support Vector Regression Algorithm, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, Vol. 472 LNICST, PP. 17-25, 2023 (Scopus)
10. Nagineni V.S., Bhoopal N., Dsnmrao D., **Idamakanti K.**, Kumar D.G., Teja Bacha B., Quality Evaluation and Assessment of Machine Translations for English to Turkish (Google Translations Vs DeepL Translations), 2023 Global Conference on Information Technologies and Communications, GCITC 2023 pp. 1-9, 2023 (Scopus)

FACULTY PUBLICATIONS (EEE) : 2022

JOURNALS :

1. Kumar C.P., Elanchezhian E.B., **Pragaspathy S.**, "An Adaptive Regulatory Approach to Improve the Power Quality in Solar PV-Integrated Low-Voltage Utility Grid", Journal of Circuits, Systems and Computers, Vol. 31, pp. 01-06, 2022 (Scopus) (WoS)
2. Bhoopal N., Malleswara Rao D.S., Sireesha N.V., **Kasireddy I.**, Gatla R.K., Kumar D.G., "Modelling and performance evaluation of 18w PEM Fuel Cell considering H2 pressure variations", Journal of New Materials for Electrochemical Systems, Vol. 25, PP 1-6, 2022 (Scopus) (WoS)
3. Uma Maheswara Rao M., Subba Rami Reddy C., Lakshmi Narayana P., Rao D.S.N.M., **kasireddy I.**, "Stability improvement in microgrids using hybridization of RSFCL along with fuzzy based SAPF", International Journal on Interactive Design and Manufacturing, pp. 1-8, 2022 (Scopus)
4. P. Sai Pavan Kumar, **Idamakanti Kasireddy**, Dsnm Rao and Ch Phani Kumar, "Improved load frequency control of 2- area power system using nature inspired algorithm", 1st International Conference on Smart Systems and Green Energy Technologies (ICSGET – 2022) 21, 22 October, pp. 67-74 2022. (GS)
5. **Chakravarthi, B.N.C.V.**, Hari Prasad, L., Chavakula, R.L., **Vijetha Inti, V.V.** (2022). Solar Energy Conversion Techniques and Practical Approaches to Design Solar PV Power Station. In: Pal, D.B., Jha, J.M. (eds) Sustainable and Clean Energy Production Technologies . Clean Energy Production Technologies. Springer, Singapore. pp. 179–201(GS)

CONFERENCES :

1. **Kasireddy I.**, Nasir A.W., Reddy R.S.K., **Veeraiah**, "Determination of stable zones of LFC for a power system considering communication delay", AIP Conference Proceedings, Vol. 2418, pp. (040014) 01-07, 2022 (Scopus)
2. Reddy R.S.K., Priya V.H., **Kasireddy I.**, "Simulink implementation of fifteen-level CHB MLC for active front end application", AIP Conference Proceedings, Vol. 2418, pp. (040010) 01-10, 2022 (Scopus)
3. Jayaraju G., Rao D., **Kasireddy I.**, "ANN Controller based Single Phase Cascade Thirty-One Level Grid-Tied Inverter for Power Quality Improvement", Proceedings of 2022 IEEE International Conference on Current Development in Engineering and Technology, CCET 2022, pp. 1-8, 2022 (Scopus)
4. **Pragaspathy S.**, Aravindh G., Kannan R., Dhivya K., Karthikkumar S., Karthikeyan V., "Advanced Control Strategies for the Grid Integration of Wind Energy System Employed with Battery Units", 3rd International Conference on Power, Energy, Control and Transmission Systems, ICPECTS 2022 - Proceedings, pp. 1-5, 2022 (Scopus)

5. Gupta N.K., **Kasireddy I.**, Singh A.K., "Design of PID Controller Using Strawberry Algorithm for Load Frequency Control of Multi-area Interconnected Power System with and Without Non-linearity", Lecture Notes in Electrical Engineering, Vol. 870, PP 153-162, pp.153-162 , 2022 (Scopus)
6. **Rama Rao R.V.D., Pragaspthy S.**, "Enhancement of Electric Power Quality using UPQC with Adaptive Neural Network Model Predictive Control", Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022, , PP 233-238, 2022, 10.1109/ICEARS53579.2022.9751866, (Scopus)
7. **Pragaspthy S., Rao R.V.D.R.**, Karthikeyan V., Bhukya R., Nalli P.K., Korlepara K.N.S.D.P., "Analysis and Appropriate Choice of Power Converters for Electric Vehicle Charging Infrastructure", Proceedings of the 2nd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2022, , PP 1554-1558, 2022 (Scopus)
8. Nasir A.W., **Kasireddy I.**, Tiwari R., Ahmed B.K.I., Furquan A., "Data-Based Tuning of PI Controller for First-order System", Lecture Notes in Electrical Engineering, Vol. 815, PP 547-555, pp. 01-08, 2022 (Scopus)
9. Saravanan S., Kalaiyarasi M., Karunanithi K., Karthi S., **Pragaspthy S.**, Kadali K.S., "IoT Based Healthcare System for Patient Monitoring", Lecture Notes in Networks and Systems, Vol. 244, PP 445-453, pp. 445-453, 2022 (Scopus)

FACULTY PUBLICATIONS (EEE): 2021

JOURNALS:

1. Bhoopal N., Rao D.S.M., Narukullapati B.K., **Kasireddy I.**, Kumar D.G., "Selective Harmonic Elimination Based THD Minimization of a Symmetric 9-Level Inverter Using Ant Colony Optimization", Mathematical Modelling of Engineering Problems, Vol. 8, PP. 769-774, 2021, (Scopus)
2. Kumar D.G., Ganesh A., Bhoopal N., Saravanan S., Prameela M., Dsnmrao, **Kasireddy I.**, "Evolutionary algorithms for real time engineering problems: A comprehensive review", Ingenierie des Systemes d'Information, Vol. 26, PP. 179-190, 2021, (Scopus)
3. Jnaneswar K., **Mallikarjuna B.**, Devaraj S., Roy D.S., Reddy M.J.B., Mohanta D.K., "A real-time DWT and traveling waves-based multi-functional scheme for transmission line protection reinforcement", Electrical Engineering, Vol. 103, PP. 965-981, 2021, (Scopus) (WoS)
4. **Pragaspthy S., Kumar C.P., Raju V.S.N.N.**, Kadali K.S., Saravanan S., "A high gain multi-port bidirectional converter with reduced voltage stress", Materials Today: Proceedings, PP. 01-09, 2021, (Scopus)

5. Menaga S., Paruvathavardhini J., **Pragaspathy S.**, Dhanapal R., Jebakumar Immanuel D., "An efficient biometric based authenticated geographic opportunistic routing for IoT applications using secure wireless sensor network", Materials Today: Proceedings, PP. 01-08, 2021, (Scopus)
6. **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. PP. 135-142, 2021. (GS)
7. **Ch. Phani Kumar** , **N. Veeraiah** , **P. Naveen**, Mitigation of Uncertainties in Hybrid Renewable Energy Systems, International Journal of Engineering Research & Technology (IJERT) Volume 10, Issue 01. PP. 300-306, 2021 (GS)

CONFERENCES:

1. Ganesh M.S.R., Kadali K.S., Bhukya R., Palleswari Y.T.R., Siva A., **Pragaspathy S.**, "Design of Decision Based Recursive Weighted Median Filter with Exponential Weights", Journal of Physics: Conference Series, Vol. 2089, PP. 01-05, 2021, (Scopus)
2. Nalli P.K., Kadali K.S., Bhukya R., Palleswari Y.T.R., Siva A., **Pragaspathy S.**, "Design of Exponentially Weighted Median Filter Cascaded with Adaptive Median Filter", Journal of Physics: Conference Series, Vol. 2089, PP. 01-05, 2021, (Scopus)
3. Sureshkumar R., Prasad S.J.S., Karthikeyan G., **Kumar ChP.**, Pravina S.V., "Three phase induction motor position control using V20 drive", AIP Conference Proceedings, Vol. 2387, PP. 140022-140026, 2021, (Scopus)
4. **Inti V.V.V.**, Lakshmi C.R., **Manoj V.S.**, Swamy G.R., "Analysis of DC-DC Power Converter for Fuel cell Applications", Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, PP. 663-668, 2021, (Scopus)
5. **Swamy B.**, **Veeraiah N.**, Nagaraju E., **Chakravarthi B.N.C.V.**, "Review of Non Conventional power electronic converters for Solar PV with Non-linear loads", Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, PP. 358-361, 2021, (Scopus)
6. **Chakravarthi B.N.C.V.**, **Narasimharao P.V.**, **Paul O.R.**, **Paturi R.P.**, "Review of Pulse Modulation Controllers for reduced swiches Multil-level converters", Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, PP. 161-164, 2021, (Scopus)
7. **Kumar C.P.**, **Pragaspathy S.**, Karthikeyan V., Durga Prakash K.N.S., "Power Quality Improvement for a Hybrid Renewable Farm Using UPQC", Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021, PP. 1483-1488, 2021, (Scopus)

8. **Ch.v. Chakravarthi B.N., Naveen P., Pragaspathy S., Narasimha Raju V.S.N.**, "Performance of Induction Motor with hybrid Multi level inverter for Electric vehicles", Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021, PP. 1474-1478, 2021, (Scopus)
9. Ramesh M., **Mallikarjuna B.**, Rajasekar T., "A novel investigation on single-input three-output dc-dc buck converter for electrical vehicles", Proceedings of the 7th International Conference on Electrical Energy Systems, ICEES 2021, PP. 141-146, 2021, (Scopus)
10. Reddy S.U.M., Venkatesh N., Nagendra N.S., **Prasad P.R.**, Nayak M.R., "Study on New Design Techniques for Enhancement of Solar Panel Efficiency", Proceedings - 2021 International Conference on Computing Sciences, ICCS 2021, PP. 70-75, 2021, (Scopus)
11. **Narasimharaju V.S.N.**, Premalatha M., Pragaspathy S., Rao K D.V.S.K., **Korlepara N.S.D.P.**, Kumar M.M., "Implementation of Instantaneous Symmetrical Component Theory based Hysteresis Controller for DSTATCOM", 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021, PP. 01-08, 2021, (Scopus)
12. **Korlepara N.S.D.P.**, Chandra G.P., **Seshagiri B., Raju V.S.N.N., Veeraiah N., Pragaspathy S.**, "A novel Freshness Indication Packaging Technology for Frozen Shrimps", 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021, PP. 01-05, 2021, (Scopus)
13. Kumar K.S., Nasir A.W., Mani P., **Kasireddy I.**, Sivaramkrishnan M., Ramkumar M.S., "Design and Investigation of Bio-inspired Optimization based I-PD controller for pH Neutralization Process", Proceedings - 2nd International Conference on Smart Electronics and Communication, ICOSEC 2021, PP. 739-744, 2021, (Scopus)
14. Devagupta R., Akhil K.T.S., Suprabhath N.S., Kritesh P., **Mallikarjuna B.**, Reddy M.J.B., Mohanta D.K., Roy D.S., "Dynamic State Estimation of Synchronous Generator Rotor Angle Using PMU and EKF Under Stressed Conditions", Lecture Notes in Electrical Engineering, Vol. 693 LNEE, PP. 213-222, 2021, (Scopus)
15. Jnaneswar K., Devaraj S., **Mallikarjuna B.**, Jaya Bharata Reddy M., Mohanata D.K., "EHV/UHV Transmission Line Protection Using Traveling Waves", Lecture Notes in Electrical Engineering, Vol. 693 LNEE, PP. 565-572, 2021, (Scopus)
16. Bhukya R., Kadali K., Siva A., Palleswari Y.T.R., **Pragaspathy**, Saravanan S., "Retraction: 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, Vol. 1916, 2021, (Scopus)

FACULTY PUBLICATIONS (EEE): 2020

JOURNALS:

1. Saravanan S., Karunanithi K., **Pragaspathy S.**, "A novel topology for bidirectional converter with high buck boost gain", Journal of Circuits, Systems and Computers, Vol. 29, PP. 01-33, 2020, (Scopus) (WoS)
2. **Mallikarjuna B.**, Devagupta R., Reddy M.J.B., Mohanta D.K., "Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring", IEEE Sensors Journal, Vol. 20, PP. 8213-8222, 2020, (Scopus) (WoS)

CONFERENCES:

1. Appikonda M., Dhanalakshmi K., **Krishna P.S.V.**, "Signal Flow Graph Model and Feed-Forward Control for a High Voltage Gain Dual Input Boost DC-DC Converter", 2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy, PESGRE 2020, PP. 01-06, 2020, (Scopus)

FACULTY PUBLICATIONS (EEE): 2019

JOURNALS:

1. **S. Pragaspathy** and B. Anand, "An Experimental Validation on Adaptive Controllers in Tracking and Smoothing of Wind Power for a Variable-Speed System", Journal of Testing and Evaluation, vol. 47, no. 4 pp. 2405-2434, 2019 (SCOPUS)
2. **G. S. Babu** and T. Chiranjeevi, "Synthesis and Application of Ceo₂ and Zro₂ nanoparticles for enhancement of dielectric strength of transformer oil", International Journal of Innovative Technology and Exploring Engineering, vol. 8, no. 9, pp. 593- 595, 2019.(GS)
3. K. Kumar, M. Bhattacharya, **S. Garlapati** and S. Banerjee, "Impact of Gallium Nitride Semiconductor Devices in Tri-state Boost Converter," 2019 IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS), 2019, pp. 292-296, doi: 10.1109/ICSETS.2019.8744791.(SCOPUS)

FACULTY PUBLICATIONS (EEE): 2018

JOURNALS:

4. V. Karthikeyan, S. Rajasekar, **S. Pragaspathy** and F. Blaabjerg, "Core Loss Estimation of Magnetic Links in DAB Converter Operated in High-Frequency Non- Sinusoidal Flux Waveforms," 2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), IIT Madras, India, 2018, pp. 1-5, (SCOPUS)

5. 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, (SCOPUS)