



BAPATLA ENGINEERING COLLEGE :: BAPATLA

(Autonomous)

Department of Electrical and Electronics Engineering

LIST OF FACULTY PUBLICATIONS

ACY 2023-2024

International Journals:

1. **Dr.N.RamaDevi**,Anunsha Kandi, Venkata Mallikarjun Reddy Kuppireddy, Sampath Komu, and Swathi Chunduru,“MPPT Technique Based DC-DC Boost Converter for Grid Connected Photovoltaic System”, IJCR, vol.16,05,ISSN:0975-833X, pp.28486-28493, May-2024.
2. **G.Rajesh,N.Karthik**, S.RameshKumar“ANFIS Controlled MMC-UPQC to Mitigate Power Quality Problems in Solar PV Integrated Power System”,JARASET, vol-36,1,ISSN:2462-1943, pp:102-130, Jan-2024.
3. **Suresh BabuMaddina**, R. Thirunavukkarasu1, **N. Karthik**“Optimization of Energy Storage Unit Size and Location in a RadialDistribution Network to Minimize Power Loss Using Firefly Algorithm”, Journal of Advanced Research in Applied Sciences and Engineering Technology 31, Issue 3, ISSN: 2462-1943, Aug-2023.
4. **K.Ramesh**,SK.Rufiya, P.Dinesh,S. Venkat, M.Ramesh, “IoT-Based Protection of PV-Wind Integrated Microgrid System Fault Analysis Using Wavelet Approach”, Gradiva Review Journal, Volume 9 Issue 12, ISSN NO : 0363-8057,pp-304-310, Dec-2023.
5. **K.Ramesh**, P.Raju, CH.Susmitha, B.Swathi, J.Malleswari Bai, D.Sai, “Power System Stability Enhancement by Controlling PV Inverter Output Voltage At 400V : A Parameter Analysis”, Gradiva Review Journal, Volume 10 Issue 4, ISSN NO : 0363-8057,pp-460-468, April-2024.
6. **K.Ramesh**, “Convergence of Artificial Intelligence & Internet of Things (IOT)”, Gradiva Review Journal, Volume 9 Issue 9, ISSN NO : 0363-8057,pp-218-225, Sept-2023.
7. **K.Ramesh**, “Predicting Individual Energy Consumption Using Machine Learning Models”, IJERT, Volume 12, Issue 12, ISSN: 2278-0181, pp.234-241, Dec-2023.
8. **K.Ramesh** , K.Sriharshadinarayana, B.Rajeev,K.Yedukondalu, “Arduino-Based MOSFET-Based Three-Phase Inverter Suitable for Micro Grid Systems”, IJERT, Vol. 13 Issue 4, ISSN:2278-0181, pp.1-5, April-2024.
9. **K.Ramesh** , LohithKonduri, “World’s Top Most Renewable Power Projects”, Vidyabharati International Interdisciplinary Research Journal 17(1) ISSN 2319-4979,pp.18-22, September-November 2023.
10. **K.Ramesh**, “Power Quality Enhancement For Cost Reduction In Plastic Industry”, Vidyabharati International Interdisciplinary Research Journal, ISSN 2319-4979, Volume, issue 16(2) , pp.1-7, June-August 2023.

11. **K.Ramesh, Satya Dinesh Madasu**, “Future Trends Of Data Science With Machine Learning And Deep Learning Technologies”, Vidyabharati International Interdisciplinary Research Journal 16(2), ISSN 2319-4979, pp. 1-7, June-August 2023.
12. **Dr.P.Sampath Kumar**, “An Efficient Hybrid Approach Based Design Of PV Fed Grid Integrated Wireless EV Battery Charger”, In Journal Of Optimal Control Applications And Methods , Id: Ocam-23-0269-R2, Id: Ocam-23-0269-R2, ISSN:1099-1514, pp.1-24, April-2024.
13. **Dr.P.Sampath Kumar**, “Research optimization strategies on improving the mechanical property of glass fibre reinforced composite”, AIP Publishing, Volume 2869, Issue 1, Online ISSN 1551-7616 Print ISSN 0094-243X, pp.030027-1 to 030027-4, Oct-2023.
14. **Dr.P.Sampath Kumar** , M.NisselaMargarate , M.V.Praveen Kumar , S.Praveen Kumar, “Software-In-Loop-Simulation For Instrument Cluster”, IJCRT - International Journal Of Creative Research Thoughts, ISSN: 2320-2882, Volume 12, Issue 5, pp. 1-8, May 2024.
15. **Dr.P.Sampath Kumar** , R.Ramya, P.Leela Sai Eswar, P. Sasikala M. Adarsh Kumar “Supervisory Control Strategy Using A Cost-Effective Controller For The Efficient Solar Power Utility In A Residential Micro Grid System”, Registration Id Ijert_257927, Paper Id: Ijert24a4419, IJCRT - International Journal Of Creative Research Thoughts, Issn: 2320-2882, Pp.1-8, Apr-2024.
16. **Satya Dinesh Madasu, K.Ramesh**, CH, Susmitha, “Solar Power 2.0: Futuristic Technologies Paving the Way for Green Energy Evolution”, Grenze, Vol,1(1), pp.1-8, May-2024.
17. **J.Pardhasaradhi**, S.nagaganesh, M.Akhil Srinivas, B.Manoj Kumar, “Sliding mode control for Grid integration of wind power system based on direct drive PMSG”, Gradiva Review Journal, Volume 10 Issue 4, ISSN NO : 0363-8057, pp-725-730, April-2024.
18. **MupooriNageandra**, Sd.Asfiya, Santosh Kumar N, Durga Prasad M, “Performance Comparison Of Several Controllers In Load Frequency Control Of Modern Interconnected Power System”, i-manager’s Journal on Electrical Engineering, ISSN Print: 0973-2632, pp. 44 to 54, March-2024.
19. **S G Golive, B.Vijaya Krishna**, G.Manasavennela, A. Devashri, D.Kavayasri, D.Niikhil, “Design of an Efficient Controller for an Enhanced Gain DC-DC Converter Using APICs for Microgrid”, IJASEM, ISSN:2454-9940, Vol 18, Issue.2, pp.541-551, April 2024.
20. **S G Golive ,B.Paramasivam, J.Ravindra**, “Optimal Siting and Sizing of Electric Vehicle Charging Stations and Distributed Generators in Distribution Systems by Meta Heuristic Techniques”, IJISAE, ISSN: 2147-6799, 12(15s), pp. 55–62, Feb-2024.
21. **S G Golive ,B.Paramasivam, J.Ravindra** , “Optimal Location of EV Charging Stations in the Distribution System Considering GWO Algorithm”IJST, ISSN:0974-5645, Volume 17, issue8, pp.751-759, Feb-2024.
22. **KarimullaPoliseti**, Venkata Sai CharanGopalam, Amrutha, Rahul Babu G, “Voltage Profile Improvement In A Substation With The Integration Of Solar Power: A Case Study On 33/11kv Substation Bapatla”, International Journal Of Current Research, ISSN: 0975-833X, Vol. 16, Issue, 03, pp. 27496-27500, March, 2024.

23. Rupa Chandrika, **Subramanyam S**, Likhitha Mani G, Vanaja G, Pavan Kumar D, Vijay Ram Raju N, “An Improved Bat Algorithm For More Efficient And Faster Maximum Power Point Tracking Under Partial Shading Conditions”, International Journal Of Current Research, ISSN: 0975-833X, Vol. 14, Issue, 04, pp. 27496-27500, March, 2024.

Book Published:

1. **Dr.G.raviKumar, Dr.N.RamaDevi**, “Transmission line and Motor Protection in Power System Networks: AI -Machine Learning Approach”, EEE Dept, BEC,Bapatla, Vol.17(3) ISBN:978-93-340-4230-6, 1st Edition -2024.

Book Chapters:

1. K.V.Dhana Lakshmi, P.K.Panigrahi, **G.Ravi Kumar**, “IOT Based Protection PV Wind Integrated Microgrid System Fault Analysis using wavelet approach”, Springer Nature Pte Ltd., ISBN:9789811621833, 9811621837No; 10.1007/978-981-16-2183-3_2, on 14/11/2023.
2. **RavikumarGoli**,KarthikSankabathula,HemanjaniMatta, Srikanth Yarram,,NageswararaoPerisetla, “Wavelet-Machine Learning Approach for Protecting Wide-Area Power Systems Networks Integrated with Microgrids”, Acceptance Notification of Paper 760 of ICCCE 2024 - Register by 3rd June 2024.
3. **RavikumarGoli**, RamakrishnaGanji2, MadhulathaBethala3, VijayChukka4, and GopiChandGovathoti5, “PV and Wind Integration of Microgrid Protection Scheme in Using Wavelet and Machine Learning”, Acceptance Notification of Paper 760 of ICCCE 2024 - Register by 3rd June 2024.
4. Chandrasekhar Rao Jetty , Srinivasa Rao U , **Kamala Devi Kolavennu** , KarthikeshYangala , Sai TejaSanaka , “A Novel Slotted Mimo Antenna For 5 G Mmwaves Communication”, Futuristic Trends in Network & Communication Technologies-ISBN: 978-93-6252-368-6IIP Series, Volume 3, Book 3, Part 4, Chapter 2, A Novel Slotted Mimo Antenna For 5g Mm-Wave Communication, Pp.125-130, March-2024.
5. Dr. R Murugadoss, Dr. KoppuravuriGurnadha Gupta, Dr. D. Rajendra Prasad,,**Dr.RavindraJanga**, Dr. J.Lakshmi Narayana , “Navigating the Frontier: Recent Trends in Intelligentand Soft Computing”, Springer journal, Acceptance Notification of Paper 760 , Register by 3rd June 2024.

Patents:

1. **Dr.P.Sampath Kumar**, Mr.MahitV.Jain, **Dr. Nooney Karthik**, .Mrs. Ponnuri Naga Lakshmi, **Mr. Sanam Subrahmanyam**, **Dr. Ch.Hariprasad**, “ Ev Battery Health Monitoring Device”, Design No. : 406443-001, Dated on : 05/04/2024.
2. **Dr Pappula Sampath Kumar**, Dr. J. Thomas Joseph Prakash, Dr. Rabi. J, Ananth Nath GVS, Dr. D. Soby, Dr. Deepika J, Mamatha Kurra, Dr. Saikat Deb, Dr. T. Akkila, Dr. A. Kanagavalli “Deep Learning (DL) Techniques For Prevention Of Train Accident & Prediction Of Breakdown in the System” Application No.202341043272 A, Date of filing of Application :28/06/2023, Publication Date : 01/09/2023, The Patent Office Journal No. 35/2023 Dated 01/09/2023, pg.no. 56696, In part-2.
3. **Dr.P.Sampath Kumar**, Mr.Ch Srisailam, Mrs.A.SujathaPriyadharshini ,Mr. Madhusudhan G. ,Mrs.Shanthi.N ,Mr. Abdul Haleem Medattil Ibrahim , Mr.G.Prabu , Dr.P.Meenalochini , Dr.R.Karthick“Dynamic Grid Interaction Protocol Enhanced with Artificial Intelligence for Electric Vehicle Integration”,Application No.202441029722 A, Date of filing of Application :12/04/2024, Publication Date : 19/04/2024, The Patent Office Journal No. 16/2024 Dated 19/04/2024 PG.NO37328 , PART-1.
4. **Dr.Pappula Sampath Kumar** , Dr. Pendela Srinivasa Rao, Dr.S.Marcelin Pushpa , Dr. M Pradeep , Dr. Sunil M V , Mrs.M.Sasikala, **Dr.Nooney Karthik**, Dr.P.Meenalochini , Dr.R.Karthick, “AUGMENTED REALITY CURRICULUM ENHANCEMENT TOOL FOR SUPPORTING NATIONAL EDUCATION POLICY GOALS” Application No.202441027149 A, Date of filing of Application :01/04/2024, Publication Date : 12/04/2024, The Patent Office Journal No. 15/2024 Dated 12/04/2024, page No: 35563, in part-I.
5. Dr. D. Padmapriya ,Dr. G. Yashodha, Ms. P. R. Pameela Rani, Dr. N. Sivakumar, Riya Mangal, Mr. Thoram Saran Kumar, Mr. I Rama Satya Nageswara Rao, Monalisa Khuntia, Dr. Hariballav Mahapatra, **Dr. Ravindra Janga**, **Balakrishna Nallamothu**, Dr. V. Kannan, Mr. J. Logeshwaran , “RECOGNITION OF OCULAR DISEASE FROM FUNGUS IMAGES USING MACHINE LEARNING APPROACH”, Application No.202341027529 A, INDIA, Date of filing of Application :14/04/2023 (43) Publication Date : 05/05/2023.
6. D. NilimaPriyadrshini ,Dr. Arthy P S, D. Sreevidya, ValluriDaneesha, Johnson.G, Pitta Vipin Raj, **Dr.K.Ramesh**, Santosh Gupta, Dr. G. JawaharlalNehru “A KEY MANAGEMENT PROTOCOL IN CIPHER TEXT POLICY FOR CLOUD DATA SHARING”, Application No.202441044769 A, Date :21-06-2024.
7. **K.Ramesh**, **MS Dinesh**, SK Rufiya, P.Dinesh Kumar, S Venkataiah, M.Ramesh, M.Srilakshmi,“System And Method For Gps Integrated Smart Irrigation System With Farmer Alerts And Automated Operation Irrigation”, Application No.202441034385 A , India, Date: 3-05-2024.
8. U Srinivas Rao, **Dr.k.kamaladevi** , **K.Rajendra**, **Ch Hari Prasad**, **P Raju**, “Smart parking system using IOT to monitor vehicle presence”, 202441035048A, 10/5/2024.

International Conferences:

1. **Rama Devi Neerukonda, NagalakshmiDasari** ,SrinivasaraoSanchana , Swathi Athota, VyshnaviGarlapati , Srikanth Kollati , “Hybrid Power System Simulation And Modeling For PV And Wind”, Accepted in IEEE, April-2024.
2. **Ravi Kumar Goli ,Rama Devi Neerukonda** , Ramakrishna Ganji , MadhulathaBethala , LSS Mallika.K , Pavani Golla , “Wavelet Based Microgrid Protection in Presenceof UPFC using Machine Learning Approach”, , IEEE CONECCT 2024 , IISC-Bangalore on 12 to 14 July 2024.
3. **P.Sampath Kumar, G.RavikumarGoli**, Karthik Sankabathula, Hemanjani Matta, Durga Prasad Agrapu, Rishi K, ”Wide area Power System Network Protection using Wavelet-Machine Learning Approach” ID :1571006574, IEEE CONECCT 2024 , IISC-Bangalore on 12 to 14 July 2024.
4. **Pappula Sampath Kumar**,N. Jagadisha;L. Smitha;Savita M. Bani;SaravanaKumar;H. M. Manjunath; Raghvendra Prasad Deshpande;AnkammaraoPadamurthy, “Research Optimization Strategies On Improving The Mechanical Property Of Glass Fibre Reinforced Composite”, International Conference On Sustainable Materials Science, Structures, And Manufacturing, Chittoor, India, 27 October 2023.
5. **K.Ramesh**, “Ev Charging Standards And Protocols”, Crossroad-23 conference, EEE Dept, BME. Chennai, pp.101-107, Oct-2024.
6. **BalaKrishnaNallamothe, Ravindra Janga**, Suneel Raju Pendem, “Design and Analysis of Grid Connected Solar PV System using PVsyst Software”, 2024 IEEE Students Conference on Engineering and Systems (SCES), June 21- 23, 2024, Prayagraj, India.

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