CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD

An Autonomous Institutution and Affiliated to OU

Academic and Administrative Audit

Current Academic Year 2025-2026

(Provide information for last five years i.e 2020-21 to 2024-25)

1. Publications:

a) Journal Papers

AY: 2024-25

International Journals: 62

S. No.	Year	Faculty Name(s)	Title of the Paper published in peer reviewed journals(along with DOI)	Name of the Journal and Publisher	Is Scopus indexed	Is WoS indexed	Q1/ Q2/ Q3/ Q4	SDG no
1	2024	Dr.K.Krishnaveni; Dr.N. Vasantha Gowri	Optimal design of hybrid green energy powered reduced switch converter based shunt active power filter using horse herd algorithm (10.1038/s41598-024-71100-3)	Scientific Reports, Nature Research	Yes	Yes	Q1	7
2	2024	Dr.K.Krishnaveni; Dr. T. Murali Krishna	Design of solar and energy storage systems fed reduced switch multilevel converter with flower pollination optimization (10.1016/j.est.2024.113324)	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	7
3	2024	Dr.K.Krishnaveni	A New Control Scheme for Wind/Battery Fed UPQC for the Power Quality Enhancement: A Hybrid Technique (10.1080/03772063.2024.2370959)	IETE Journal of Research, Taylor and Francis Ltd.	Yes	Yes	Q3	7
4	2024	Dr.K.Krishnaveni	Optimizing Harmonic Mitigation for Smooth Integration of Renewable Energy: A Novel Approach Using Atomic Orbital Search and Feedback Artificial Tree Control (10.23919/PCMP.2023.000577)	Protection and Control of Modern Power Systems, Institute of Electrical and Electronics Engineers Inc.	Yes	Yes	Q1	7
5	2024	Dr.K.Krishnaveni	SVPWM technique for 3-ph 6-switch and 3-ph 4-switch inverters-a	International Journal of Power	Yes	No	Q3	7

			comparison (10.11591/ijpeds.v15.i4.pp2334-2343)	Electronics and Drive Systems, Institute of Advanced Engineering and Science				
6	2025	Dr.K.Krishnaveni	Grid connected and standalone renewable source fed UPQC: a hybrid control technique for power quality enhancement (10.1007/s42452-025-06562-9)	Discover Applied Sciences, Springer	Yes	ESCI	Q2	7,9
7	2024	Dr. G. Suresh Babu	Islanded micro-grid under variable load conditions for local distribution network using artificial neural network (10.1080/23080477.2024.2358672)	Smart Science, Taylor and Francis Ltd.	Yes	ESCI	Q2	7
8	2024	Dr. G. Suresh Babu	Investigation of 1.5 kW secondary side power controlled method in a inductive wireless power transfer system (10.11591/IJPEDS.V15.I2.PP670-684)	International Journal of Power Electronics and Drive Systems, Institute of Advanced Engineering and Science	Yes	No	Q3	3
9	2024	Dr. G. Suresh Babu	Investigation of duty cycle controlled inductive wireless power transfer converter using series-series compensation for electric vehicle application (10.11591/ijece.v14i6.pp6214-6224)	International Journal of Electrical and Computer Engineering, Institute of Advanced Engineering and Science	Yes	No	Q3	7
10	2024	Dr. G. Suresh Babu	AI Based Hybrid Controlled Grid / Standalone Solar Integrated Unified Power Quality Conditioner for the EV Charging Station (10.14445/23488379/IJEEE-V11I8P117)	SSRG International Journal of Electrical and Electronics Engineering, Seventh Sense Research Group	Yes	No	Q4	7,9
11	2025	Dr. G. Suresh Babu; Dr.N. Vasantha Gowri	Construct and Performance Investigation of a Hybrid ANFIS Controlled Islanded Micro-Grid	International Journal of Renewable Energy Research-	Yes	ESCI	Q3	7

			(https://doi.org/10.20508/ijrer.v15i1.14522.g9023)	IJRER, Gazi University				
12	2025	Dr. G. Suresh Babu	Reliability Assessment of Distribution System with the Integration of Distributed Energy Resources and Electric Vehicle Charging Stations (10.37394/232016.2025.20.2)	WSEAS Transactions on Power Systems, World Scientific and Engineering Academy and Society	Yes	No	Q2	2
13	2024	Dr. P.V. Prasad	ALSO-DCGNN: enhancing power quality and voltage regulation of energy storage systems in DC micro grid (10.1007/s10668-024-05226-9)	Environment, Development and Sustainability, Springer Science and Business Media B.V.	Yes	Yes	Q1	7
14	2024	Dr. P.V. Prasad; Dr.Ch.Venkata Krishna Reddy	Multifunctional EV Charger with Bidirectional SEPIC Converter for Low Current Ripple in PV Source Supported Grid System (10.14445/23488379/IJEEE-V11I10P119)	SSRG International Journal of Electrical and Electronics Engineering, Seventh Sense Research Group	Yes	No	Q4	7
15	2024	Dr. P.V. Prasad	Sensor-Less Back-EMF Integration for Control of Brushless DC Motors for Electric Vehicles (10.14445/22315381/IJETT-V72I9P133)	International Journal of Engineering Trends and Technology, Seventh Sense Research Group	Yes	No	Q4	3
16	2024	Dr. P.V. Prasad	IoT based energy management strategy for hybrid electric storage system in EV using SAGAN-COA approach (10.1016/j.est.2024.114315)	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	3
17	2024	Dr. P.V. Prasad	Optimal power utilization in hybrid microgrid systems with IoT-based battery-sustained energy management using RSA-PFGAN approach (10.1016/j.est.2024.114632)	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	7
18	2025	Dr. P.V. Prasad	Enhancing Hybrid DC/AC Microgrid	IETE Journal of Research,	Yes	Yes	Q3	7

			Performance through IoT based Grid Integrated Energy Sources using GTO-MGNN Approach (https://doi.org/10.1080/03772063.2025.2487934)	Taylor and Francis Ltd.				
19	2025	Dr. P.V. Prasad	A Tiered Control Strategy for Energy Management in PEMFC Hybrid Systems for Distributed Power and Vehicle Applications (10.37391/IJEER.130109)	International Journal of Electrical and Electronics Research (IJEER) , FOREX Publication	Yes	No	Q4	7
20	2025	Dr. P.V. Prasad	Integration of Solar Photovoltaic with Modular Multiport Converter Using a Pi Controller Optimized Through Hybrid Osprey Optimization Algorithm and Relational Bi-Level Aggregation Graph Network (10.1142/S1469026824500366)	International Journal of Computational Intelligence and Applications, WORLD SCIENTIFIC PUBL CO PTE LTD, Singapore	Yes	ESCI	Q3	7
21	2025	Dr. P.V. Prasad; Dr.Ch.Venkata Krishna Reddy	PV Fed Grid System with PI Controller for Enhancing Power Quality Using CMBO-PCSANN Approach (10.1080/03772063.2025.2469639)	IETE Journal of Research, Taylor and Francis Ltd.	Yes	Yes	Q3	NA
22	2025	Dr. P.V. Prasad; Dr.Ch.Venkata Krishna Reddy	An efficient hybrid GEO-MFDNN approach for energy management using photovoltaic electric vehicle charging station (10.1007/s10668-025-06201-8)	Environment, Development and Sustainability , Springer	Yes	Yes	Q1	7
23	2025	Dr. P.V. Prasad	Performance Analysis of Solar PV-UPQC for Enhanced Power Quality (10.18280/jesa.580117)	Journal Europeen des Systemes Automatises, International Information and Engineering Technology Association	Yes	No	Q3	7
24	2025	Dr. P.V. Prasad	The Analysis of Harmonics and Transient Stability for the Power System Using a Hybrid Approach	IETE Journal of Research, Taylor and Francis Ltd.	Yes	No	Q3	NA

			(10.1080/03772063.2025.2495074)					
25	2024	Dr. P.V. Prasad; Dr.Ch.Venkata Krishna Reddy	Unbalanced operation of integrated power distribution system for optimal energy flow using LSO-vCANNs approach. (10.1007/s10668-024-05121-3)	Environment, Development and Sustainability, Springer	Yes	Yes	Q1	NA
26	2024	Dr. BalaSubbareddy Mallala	Performance Enhancement of PMSG Wind Farm with Adaptive Fuzzy-Based PID Regulator in Non-Linear Backstepping Controller (10.14445/23488379/IJEEE-V11I11P115)	SSRG International Journal of Electrical and Electronics Engineering, , Seventh Sense Research Group	Yes	No	Q4	7
27	2024	Dr. BalaSubbareddy Mallala	Forecasting global sustainable energy from renewable sources using random forest algorithm (10.1016/j.rineng.2024.103789)	Results in Engineering, Elsevier B.V.	Yes	ESCI	Q1	7,13, 15
28	2025	Dr. BalaSubbareddy Mallala	Grid Interconnection of Renewable Sources with Three-phase Transformer-Less Boost Multilevel Inverter Topology with Reduced Harmonics (https://doi.org/10.14445/22315381/IJETT-V73I3P141)	International Journal of Engineering Trends and Technology, Seventh Sense Research Group®	Yes	No	Q4	7
29	2025	Dr. BalaSubbareddy Mallala	Cloud-powered efficiency: a mobile application for agricultural pest identification using cycle-consistent generative adversarial networks (10.1007/s10668-025-06021-w)	Environment, Development and Sustainability, Springer Science and Business Media B.V.	Yes	Yes	Q1	1
30	2025	Dr. BalaSubbareddy Mallala; Dr. T. SudhakarBabu	Experimental Analysis Using IoT-Based Smart Power Quality Analyzer System With Remote Data Access and GSM Alerting Mechanism (10.1109/ACCESS.2025.3529685)	IEEE Access, IEEE	Yes	Yes	Q1	1
31	2025	Dr. BalaSubbareddy	An ECG signal processing and cardiac	Electromagnetic Biology	Yes	Yes	Q3	NA

		Mallala	disease prediction approach for IoT-based health monitoring system using optimized epistemic neural network (10.1080/15368378.2025.2503334)	and Medicine, Taylor and Francis Ltd.				
32	2024	Dr. BalaSubbareddy Mallala; Dr. P.V. Prasad	Enhanced IoT-enabled community microgrid energy management with hybrid COA-HQNN approach with battery degradation consideration (10.1016/j.est.2024.114739)	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	NA
33	2024	Dr. B. Suresh Kumar	Performance Enhancement of Hybrid-Type Full-Bridge DC/DC Converter with Fuzzy MPPT for Efficient Photovoltaic Power Extraction (10.14445/23488379/IJEEE-V11I7P126)	SSRG International Journal of Electrical and Electronics Engineering, Seventh Sense Research Group	Yes	No	Q4	7
34	2025	Dr. B. Suresh Kumar	Identification of Weak Bus in the System for Voltage Stability Analysis by Using Fast Voltage Stability Index (10.14445/23488379/IJEEE-V12I2P110)	SSRG International Journal of Electrical and Electronics Engineering, Seventh Sense Research Group	Yes	No	Q4	NA
35	2024	Dr. T. Murali Krishna	Single-phase five level modified neutral point clamped grid connected inverter topology with front-end chopper control of DC-link capacitor voltages (10.11591/ijpeds.v15.i4.pp2287-2295)	International Journal of Power Electronics and Drive Systems, Institute of Advanced Engineering and Science	Yes	No	Q3	NA
36	2025	Dr. T. Murali Krishna	Enhanced Performance of E- STATCOM Using Fuzzy Logic Controller for Grid-Connected Wind Systems under dynamic fault conditions (10.37391/IJEER.130101)	International Journal of Electrical and Electronics Research (IJEER) , FOREX Publication	Yes	No	Q4	7
37	2025	Dr. T. Murali Krishna	Three Phase Nine Level Modified NPC Grid Connected Inverter Topology with	International Journal of Electrical and Electronics	Yes	No	Q4	7

			Proportional Resonant Based Control Strategy (10.14445/23488379/IJEEE-V12I3P113)	Engineering, Seventh Sense Research Group®				
38	2025	Dr. T. Murali Krishna; Dr. T. SudhakarBabu	Enhancing Smart Microgrid Resilience Under Natural Disaster Conditions: Virtual Power Plant Allocation Using the Jellyfish Search Algorithm (10.3390/su17031043)	Sustainability, MDPI	Yes	Yes	Q1	7,9,11
39	2024	Dr. T. SudhakarBabu	Optimal electric vehicle charge scheduling algorithm using war strategy optimization approach (10.1038/s41598-024-72428-6)	Scientific Reports, Nature Research	Yes	Yes	Q1	7
40	2024	Dr. T. SudhakarBabu	A reliable GTR-PLC approach for power enhancement and online monitoring of solar PV arrays during partial shading (10.1016/j.energy.2024.131839)	Energy, Elsevier Ltd	Yes	Yes	Q1	7
41	2024	Dr. T. SudhakarBabu	Design, simulation and testing of U-type actuator-based single-coil active-magnetic-bearing (10.1080/15397734.2024.2428756)	Mechanics Based Design of Structures and Machines, Taylor and Francis Ltd.	Yes	Yes	Q2	NA
42	2024	Dr. T. SudhakarBabu	Transformer-less high gain DC–DC converter design and analysis for fuel cell vehicles (10.1038/s41598-024-69231-8)	Scientific Reports, Nature Research	Yes	Yes	Q1	7,9
43	2024	Dr. T. SudhakarBabu	Mitigation of mismatch losses in solar PV systems: a hybrid L-shaped propagated array configuration approach (10.3389/fenrg.2024.1432834)	Frontiers in Energy Research, Frontiers Media SA	Yes	No	Q2	7
44	2024	Dr. T. SudhakarBabu	Enhancing distribution system performance by optimizing electric vehicle charging station integration in smart grids using the honey badger algorithm	Scientific Reports, Nature Research	Yes	Yes	Q1	7,9

			(10.1038/s41598-024-78569-y)					
45	2024	Dr. T. SudhakarBabu	A multi-string differential power processing based voltage equalizer for partial shading detection and mitigation in PV arrays (10.1016/j.aej.2024.05.105)	Alexandria Engineering Journal, Elsevier B.V.	Yes	Yes	Q1	7
46	2024	Dr. T. SudhakarBabu	Supervised classification and fault detection in grid-connected PV systems using 1D-CNN: Simulation and real-time validation (10.1016/j.egyr.2024.08.008)	Energy Reports, Elsevier Ltd	Yes	Yes	Q1	7
47	2024	Dr. T. SudhakarBabu	Optimizing Radial Distribution System with Distributed Generation and EV Charging: A Spotted Hyena Approach (10.1109/ACCESS.2024.3438456)	IEEE Access, Institute of Electrical and Electronics Engineers Inc.	Yes	Yes	Q1	7
48	2024	Dr. T. SudhakarBabu	Advancement of electric vehicle technologies, classification of charging methodologies, and optimization strategies for sustainable development - A comprehensive review (10.1016/j.heliyon.2024.e39299)	Heliyon, Elsevier Ltd	Yes	No	Q1	7,8,9, 11,17
49	2025	Dr. T. SudhakarBabu	A new H6 neutral point clamped transformerless photo voltaic inverter (10.1038/s41598-025-94736-1)	Scientific Reports, Nature Research	Yes	Yes	Q1	7
50	2024	Dr. T. SudhakarBabu	Hybrid salp swarm maximum power point tracking algorithm for photovoltaic systems in highly fluctuating environmental conditions (10.1038/s41598-024-84333-z)	Scientific Reports, Nature Research	Yes	Yes	Q1	7
51	2025	Dr. T. SudhakarBabu	Optimizing power and energy loss reduction in distribution systems with RDGs, DSVCs and EVCS under different weather scenarios (10.1016/j.seta.2025.104	Sustainable Energy Technologies and Assessments, Elsevier Ltd	Yes	Yes	Q1	7

			219)					
52	2025	Dr. T. SudhakarBabu	An optimied nueral network-honey badger-based control technique for a hybrid solar PV and battery energy storage fed unified power quality conditioner (10.1016/j.est.2024.114818)	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	NA
53	2025	Dr. T. SudhakarBabu	Dwarf mongoose optimization-based reconfiguration for enhanced power generation in partially shaded photovoltaic arrays (10.1016/j.rineng.2025.105599)	Results in Engineering, Elsevier B.V.	Yes	ESCI	Q1	7
54	2025	Dr. T. SudhakarBabu	Advanced AI-enabled technologies for sustainable biohydrogen production and environmental stewardship (10.1016/j.ijhydene.2025.150045)	International Journal of Hydrogen Energy, PERGAMON -ELSEVIER SCIENCE LTD	Yes	Yes	Q1	6,7,9, 12,13
55	2024	Dr. T. SudhakarBabu	Multiport Converter With Reduced Part Count for DC Nanogrid Application (10.1109/JESTIE.2024.3504741)	Ieee Journal Of Emerging And Selected Topics In Industrial Electronics, IEEE	No	ESCI	NA	NA
56	2025	Dr. T. SudhakarBabu	Smart energy management for revenue optimization and grid independence in an Indian RDS (10.1016/j.ecmx.2025.100955)	Energy Conversion and Management: X, Elsevier	Yes	ESCI	Q1	7,9,13
57	2024	Dr. T. SudhakarBabu	Editorial: Attainment of SDGs through the advancement in solar PV systems (10.3389/fenrg.2024.1451373)	Frontiers in Energy Research, Frontiers Media SA	Yes	No	Q2	7
58	2024	Dr.Ch.Venkata Krishna Reddy; Dr. BalaSubbareddy Mallala	Power quality improvement of microgrid for photovoltaic ev charging station with hybrid energy storage system using RPO-ADGAN approach	Journal of Energy Storage, Elsevier Ltd	Yes	Yes	Q1	7

			(10.1016/j.est.2024.114970)					
59	2025	Dr.Ch.Venkata Krishna Reddy	Optimizing Cost and Emission Reduction in Photovoltaic–Battery-Energy-Storage-System-Integrated Electric Vehicle Charging Stations: An Efficient Hybrid Approach (10.1002/ente.202301131)	Energy Technology, John Wiley and Sons Inc	Yes	Yes	Q2	7
60	2025	Dr.Ch.Venkata Krishna Reddy	A Hybrid Mud Ring Algorithm and Continual Spatio-Temporal Graph Convolutional Networks for Short-Term Residential Load Forecasting in Smart Grids (10.1007/s40866-025-00260-6)	Smart Grids and Energy , SPRINGERNATURE	Yes	ESCI	Q2	NA
61	2024	Dr. Sukanth	Using a Pi-Fuzzy Controller and a Three-Phase Three-Level AC/DC Converter, Electric Vehicle to Power Grid Integration (NA)	Indian Journal of Natural Sciences, NA	No	No	NA	NA
62	2025	Sri. I Pranav	Load Flow Optimization and Power Quality Enhancement in Non-linear Load Systems Using Modified Fuzzy-Based SAPF Control Techniques (10.48047/IJIEMR/V14/ISSUE04/200)	INTERNATIONAL JOURNAL FOR INNOVATIVE ENGINEERING AND MANAGEMENT RESEARCH, NA	No	No	NA	NA

b) Conference Papers

S. No	**Date of Presentation**	**Faculty Name(s)**	**Title of the Paper presented in Conference**	**Name of the Conference**	**Publisher (IEEE/ Springer/ Elsevier/etc**	***DOI***	***SDG No***
1	2024	Dr.K.Krishnaven	Cryptographic	2024 15th	IEEE	10.1109/ICC	NA

		i	Protocols for Securing Internet of Things (IoT)	International Conference on Computing Communication and Networking Technologies, ICCCNT 2024		CNT61001.2024.10725019	
2	2025	Dr.K.Krishnaveni	Fopid Controllers Based Forward DC to DC Converter With Modified Osprey Optimization Algorithm for MPPT of PV System Under Partial Shading Conditions	2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	IEEE	10.1109/CE2CT64011.2025.10939747	7,15
3	2024	Dr. G. Suresh Babu	Comparative Study of Secondary Side Power Control Methods for S-S Compensation Topology in Wireless EV Charger Applications	2024 IEEE Students Conference on Engineering and Systems: Interdisciplinary Technologies for Sustainable Future, SCES 2024	IEEE	10.1109/SCES61914.2024.10652506	7
4	2024	Dr. P.V. Prasad; Dr. BalaSubbareddy Mallala	Optimized Scheduling of Electric Vehicles Charging in Smart Grid using Deep Learning	Proceedings - 2024 International Conference on Expert Clouds and Applications, ICOECA 2024	IEEE	10.1109/ICOECA62351.2024.00079	
5	2025	Dr. P.V. Prasad	Cognitive Congestion Alleviation Framework in IoT-Enabled WSN for Next-Gen Intelligent Transport Systems via Optimized Capsule Attention Network	3rd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2025	IEEE	10.1109/IDCIOT64235.2025.10915117	11
6	2025	Dr. P.V. Prasad	Giant Trevally Optimization for Enhanced Vehicle-to-Grid and Grid-to-Vehicle Operations in EV Charging Stations	3rd International Conference on Automation, Computing and Renewable Systems (ICACRS),2024	IEEE	10.1109/ICACRS62842.2024.10841632	7
7		Dr. P.V. Prasad	Spiking Deep Residual Network Optimized Using Pied Kingfisher Optimizer for	2025 International Conference on Inventive Computation Technologies (ICICT)	IEEE	10.1109/ICICT64420.2025.11005264	7

			Renewable Energy Forecasting in Microgrids				
8	2024	Dr. BalaSubbareddy Mallala	Integrated Energy Management and Load Forecasting Using Machine Learning	2nd International Conference on Sustainable Computing and Smart Systems, ICSCSS 2024 - Proceedings	IEEE	10.1109/ICSCSS60660.2024.10625623	7,15
9	2024	Dr. BalaSubbareddy Mallala	Electrical Fault Detection And Localization Using Machine Learning	Proceedings - 2024 International Conference on Expert Clouds and Applications, ICOECA 2024	IEEE	10.1109/ICOECA62351.2024.00145	NA
10	2024	Dr. BalaSubbareddy Mallala	Challenges in Cyber Physical Social Systems and Internet of Things	Proceedings of the 5th International Conference on Smart Electronics and Communication, ICOSEC 2024	IEEE	10.1109/ICOSEC61587.2024.10722103	NA
11	2025	Dr. BalaSubbareddy Mallala	Machine Learning for Predicting Energy Consumption in Smart Buildings Using Artificial Adaptive Systems	Proceedings of the International Conference on Multi-Agent Systems for Collaborative Intelligence, ICMSCI 2025	IEEE	10.1109/ICMSCI62561.2025.10894453	NA
12	2025	Dr. BalaSubbareddy Mallala	Beluga Whale Optimization for Effective Energy Management in Microgrids with Electric Vehicle Charging in Smart Distribution Networks	Proceedings of the International Conference on Multi-Agent Systems for Collaborative Intelligence, ICMSCI 2025	IEEE	10.1109/ICMSCI62561.2025.10894279	7,9
13	2025	Dr. BalaSubbareddy Mallala	Enhanced Demand-Side Management for Electric Vehicle Charging Stations Using Pyramidal Dilation Attention Neural Networks	6th International Conference on Mobile Computing and Sustainable Informatics, ICMCSI 2025 - Proceedings	IEEE	10.1109/ICMCSI64620.2025.10883404	7
14	2025	Dr. BalaSubbareddy Mallala	Enhancing Energy Management in Photovoltaic Systems with Battery Storage through Artificial Rabbits Optimization in Connected and Disconnected Modes	3rd International Conference on Automation, Computing and Renewable Systems, ICACRS 2024 - Proceedings	IEEE	10.1109/ICACRS62842.2024.10841665	7

15	2025	Dr. BalaSubbareddy Mallala	Optimizing Smart Grid Energy and Load Prediction with Namib Beetle Algorithm and Self-Adaptive Physics-Informed Neural Networks	3rd International Conference on Automation, Computing and Renewable Systems, ICACRS 2024 - Proceedings	IEEE	10.1109/ICACRS62842.2024.10841617	7
16	2025	Dr. BalaSubbareddy Mallala	Real-Time Energy Management in Buildings Using Reinforcement Learning Techniques	Proceedings of the 2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2024	IEEE	10.1109/ICSES63760.2024.10910262	NA
17	2025	Dr. BalaSubbareddy Mallala; Sri. C. Harish	A novel approach for addressing frequency challenges in renewable energy systems with motor generator pairs	Hybrid and Advanced Technologies, Proceedings of the International Conference on Hybrid and Advanced Technologies (ICHAT 2024), India	CRC Press, Taylor and Francis	10.1201/9781003559115-89	NA
18		Dr. BalaSubbareddy Mallala	Design of Fuzzy Controllers for Flexible joint Robotic Manipulator	2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2025	IEEE	10.1109/IATMSI64286.2025.10985015	NA
19	2025	Dr. B. Suresh Kumar	Fake News Detection and Classification Using Deep Learning Techniques for Social Media Text	6th International Conference on Advanced Informatics for Computing Research, ICAICR 2023	Springer, Cham	10.1007/978-3-031-84062-3_10	NA
20	2025	Dr. B. Suresh Kumar	Empowering Supply Chain Transparency and Risk Management through Hybrid CNN and BiGRU Approach	1st International Conference on Software, Systems and Information Technology, SSITCON 2024	IEEE	10.1109/SSITCON62437.2024.10795921	9,12
21	2024	Dr. B. Suresh Kumar	Sarcasm Detection and Classification Using Deep Learning Model	7th International Conference on Soft Computing: Theories and Applications, SoCTA 2023	Springer, Singapore	10.1007/978-981-97-2089-7_34	NA
22		Dr. B. Suresh Kumar	Advanced Neural Network Models	2025 5th International Conference on Trends	IEEE	10.1109/ICTMIM65579.	7

			for Optimal Energy Management in Microgrids with Integrated Electric Vehicles	in Material Science and Inventive Materials (ICTMIM)		2025.10988248	
23	2024	Dr. T. Murali Krishna ; Sri. N. Santosh Kumar	Induction Motor Driven Grid Connected Water Pumping System Powered by Wind-PV-Battery-Diesel Hybrid Generation	2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	IEEE	10.1109/CE2CT64011.2025.10939647	7,14
24	2025	Dr. T. Murali Krishna; Sri. C. Harish	Efficient Energy Management System of Hybrid Microgrid Powered by Renewable Energy Sources with 3DOF-PID Controllers Based 5Level H-Bridge Inverter	2024 International Conference on Sustainable Power and Energy, ICSPE 2024	IEEE	10.1109/ICSPE62629.2024.10924323	7
25	2025	Dr. T. Murali Krishna; Sri. C. Harish	Efficient Energy Management Algorithm for Single Stage SPV Based Water Pumping System Without Batteries	2024 International Conference on Sustainable Power and Energy, ICSPE 2024	IEEE	10.1109/ICSPE62629.2024.10924376	7
26	2025	Dr. T. Murali Krishna	MIWO-IC Based MPPT of PV Fed Water Supply System Driven by Induction Motor with a Five Level Inverter	2024 International Conference on Intelligent Computing and Sustainable Innovations in Technology, IC-SIT 2024	IEEE	10.1109/IC-SIT63503.2024.10862900	6,7,9,15
27	2025	Dr. T. Murali Krishna	Efficient Energy Management System of Grid Connected wind-PV based EV Charging Station Using Novel Aggregated Control Method	2024 International Conference on Sustainable Power and Energy, ICSPE 2024	IEEE	10.1109/ICSPE62629.2024.10924342	7
28	2024	Dr. Kowsthubha Palle; Dr. BalaSubbareddy Mallala; Dr. P.V. Prasad	Incorporating Knowledge Graphs in Semantic Search	2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024	IEEE	10.1109/ICCCNT61001.2024.10724185	NA

29	2025	Dr. Kowsthubha Palle; Dr. BalaSubbareddy Mallala	Anomaly Detection in Power Distribution Networks with Unsupervised Learning Algorithms	2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)	IEEE	10.1109/ICSES63760.2024.10910473	NA
30	2024	Dr. T. SudhakarBabu	A Genetic Programming-Machine Learning Based Optimal Power Generation Approach for PV Arrays During Partial Shading	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718002	7
31	2024	Dr. T. SudhakarBabu	Artificial neural network-based split-DC bus voltage balancing for electric vehicle charging stations with energy storage stage	AIP Conference Proceedings	American Institute of Physics	10.1063/5.0209117	7
32	2025	Dr. T. SudhakarBabu; Dr. T. Murali Krishna	IoT-Based Wireless Electric Vehicle Charging Station	6th International conference on Intelligent Communication, Control and Devices (ICICCD 2024)	Springer, Singapore.	10.1007/978-981-97-8329-8_70	7
33	2025	Dr. T. SudhakarBabu	Smart Attention (SAB-LSTM): A Revolutionary Model for Advanced Solar Energy Forecasting	11th International Conference on Environment and Renewable Energy (ICERE 2025), E3S Web of Conferences	EDP Sciences	10.1051/e3sconf/202562404004	NA
34	2025	Dr.N. Vasantha Gowri; Sri. N. Santosh Kumar, Sri. C. Harish	Stability Analysis of Photovoltaic Powered Induction Motor Driven Water Pumping System by Using Small Signal Analysis	2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	IEEE	10.1109/CE2CT64011.2025.10939826	7
35	2025	Dr.Ch.Venkata Krishna Reddy	Real-Time Accident Detection and Reporting System Using Edge Computing and Convolutional Neural Networks with Integration of GPS for Public Safety	Lecture Notes in Electrical Engineering	Springer	10.1007/978-981-97-0562-7_11	3,11

36	2024	Dr.Ch.Venkata Krishna Reddy	Analysis of Image Quality and Video Denoising Using Convolutional Neural Networks	Lecture Notes in Electrical Engineering	Springer	10.1007/978-981-97-0562-7_12	NA
37	2024	Sri. D. Harsha; Dr. T. SudhakarBabu	Design and Development of Bidirectional Converter based on V2G and G2V Operation	E3S Web of Conferences	EDP Sciences	10.1051/e3sconf/202454703002	7
38	2025	Sri. C. Harish	IoT based intelligent power systems from conceptualization to physical modeling in renewable energy sources	Hybrid and Advanced Technologies, Proceedings of the International Conference on Hybrid and Advanced Technologies (ICHAT 2024), India	CRC Press, Taylor and Francis	10.1201/9781003559115	NA
39	2024	Dr. B. Krishna Chaitanya	Implementation of Silicon Wafer Defect Classification Web application using Deep Learning	International Conference on Advancements in Power, Communication and Intelligent Systems, APCI 2024	IEEE	10.1109/APCI61480.2024.10616637	9
40	2024	Dr. P. Vijay Babu	Toward Optimal Multi-Microgrid Design and Operation for Enhancing Supply-Security and Reliability	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718175	7
41	2024	Dr. P. Vijay Babu	Load Frequency Control in a Renewable Rich Power Systems: An Artificial Hummingbird Optimization Based Multistage PID Control Approach	2024 IEEE International Conference on Smart Power Control and Renewable Energy, ICSPCRE 2024	IEEE	10.1109/ICSPCRE62303.2024.10675107	NA
42	2024	Dr. P. Vijay Babu	Combined Allocation of Renewable-Based Distributed Generation and Soft Open Point into Distribution Networks in Presence of Plug-In Electric Vehicles: A Multi-Objective Framework	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718231	7
43	2025	Dr. Yawer	Current Sensorless	2024 International	IEEE	10.1109/IC2	NA

		Abbas Khan; Dr. Sukanth	Based Maximum Torque per Ampere Controlled Synchronous Reluctance Motor Drive	Conference on Computer, Electronics, Electrical Engineering & their Applications (IC2E3),		E362166.2024.10826954.	
44	2025	Mr. D. Satish; Dr. T. SudhakarBabu	Solar and Wind-Based Charging System for Electric Vehicles	6th International conference on Intelligent Communication, Control and Devices (ICICCD 2024)	Springer, Singapore.	10.1007/978-981-97-8329-8_71	7,9,17
45	2024	Dr. R.Vijay	Plastic Material Identification and Categorization by Applying Convolutional Neural Network	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718239	11,12
46	2024	Dr. R.Vijay	Household Power Consumption Analysis using Machine Learning	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718239	7
47	2024	Dr. R.Vijay	Enriched Power Yield from Photovoltaic Systems Under Partial Shadowing Conditions by Velocity Grey Wolf Algorithm	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024	IEEE	10.1109/SEFET61574.2024.10718239	7

c) Text Books / Book Chapters

S. No.	Year	Author Name(s)	Title of the Book	Publisher	National /International	ISBN No	Chapter no along with DOI
1	2024	**Pamshetti V.B.;** Annamraju A.K.; **Balasubbareddy M.**; Ponnala R	Renewable Energy for Plug-In Electric Vehicles: Challenges, Approaches, and Solutions for Grid Integration	**Elsevier**	International	978-044328955-2; 978-044328956-9	Chapter 10 (10.1016/B978-0-443-28955-2.00010-X)
2	2024	Ram Babu T.; Dipanshu N.; **Venkata P.P.; Balasubbareddy**	Renewable Energy for Plug-In Electric Vehicles: Challenges, Approaches, and	**Elsevier**	International	978-044328955-2; 978-044328956-9	Chapter 15 (10.1016/B978-0-443-28955-

		M.	Solutions for Grid Integration				2.00015-9)
3	2024	Adhikary S.; Biswas P.K.; **Babu T.S.; Balasubbareddy M**.	Renewable Energy for Plug-In Electric Vehicles: Challenges, Approaches, and Solutions for Grid Integration	**Elsevier**	Internati onal	978-044328955-2; 978-044328956-9	Chapter 12 10.1016/B978-0-443-28955-2.00012-3
4	2024	Yuvaraj T.; Devabalaji K.R.; **Tangirala M.K**.,	Renewable Energy for Plug-In Electric Vehicles: Challenges, Approaches, and Solutions for Grid Integration	**Elsevier**	Internati onal	978-044328955-2; 978-044328956-9	Chapter 9 10.1016/B978-0-443-28955-2.00009-3
5	2024	Balachandran P.K.; Nwulu N.; **Sudhakar Babu T**.	Renewable Energy for Plug-In Electric Vehicles: Challenges, Approaches, and Solutions for Grid Integration	**Elsevier**	Internati onal	978-044328955-2; 978-044328956-9	Chapter 1 10.1016/B978-0-443-28955-2.00001-9

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International Journals Publications: 72 (SCI/SCIE/WoS-36, Scopus-21, UGC/Other-15)

S.No	Journal Publication
1	Vankudothu Balu, **K.Krishnaveni,** Priyanka Malla and Siva Ganesh Malla, "Improving the power quality and hydrogen production from renewable energy sources based microgrid", Engineering Research Express, Vol-5, No-3, **Aug-2023**, ISSN: 2631-8695, **IOP Publishing,** Article number 035037, doi:10.1088/2631-8695/acecdb, **Scopus Indexed, ESCI, Q3**
2	Srilakshmi, K., Rao, G.S., Swarnasri, K., Sai Ram.I., Krishnaveni K, Praveen Kumar B, Ilhami Colak, "Optimization of ANFIS controller for solar/battery sources fed UPQC using an hybrid algorithm", Electrical Engineering**, Jan-2024**, ISSN:0948-7921, **Springer Verlag**, doi: 10.1007/s00202-023-02185-8, **SCI, Q2**
3	Koganti Srilakshmi, Gummadi Srinivasa Rao, Katragadda Swarnasri, Sai Ram Inkollu,

	Krishnaveni Kondreddi, Praveen Kumar Balachandran, C. Dhanamjayulu, Baseem Khan, "Multiobjective Neuro-Fuzzy Controller Design and Selection of Filter Parameters of UPQC Using Predator Prey Firefly and Enhanced Harmony Search Optimization", International Transactions on Electrical Energy Systems, Vol-2024, Article ID 6611240, 21 pages, ISSN:2050-7038, **March-2024. Wiley-Hindawi,** https://doi.org/10.1155/2024/6611240, **SCI, Q2**
4	Deepa Nidanakavia, **Krishnaveni.K**, Mallesham.G, "Multi-Objective Optimisation Techniques for The Reduction of Torque Ripples in Switched Reluctance Motor", Semiconductor Optoelectronics, Vol. 42 No. 2 (**2023**), pp.13-28, https://bdtgd.cn/, ISSN:1001-5868, https://bdtgd.cn/article/view/2023/02/13.pdf
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6	S.R.Reddy, **P.V.Prasad,** G.N.Srinivas, "Power Quality Improvement on 11kV/440V Distribution System using DSTATCOM", International Journal of Electrical Engineering and Computer Science, Vol-6, pp.17-26, **Jan-2024**, E-ISSN: 2769-2507, doi: 10.37394/232027.2024.6.2
7	Basavaraju Bennehalli, Lavakush Singh, Silas Stephen D, **P. Venkata Prasad, Balasubbareddy Mallala**, A Purna Chandra Rao, "Machine learning Approach to Battery Management and Balancing Techniques for Enhancing Electric Vehicle Battery Performance", Journal of Electrical Systems, Vol-20, No-2s, pp.885-892, **Feb-2024,** ISSN:1112-5209, ESRG Group, doi: https://doi.org/10.52783/jes.1685, **Emerging Sources Citation Index, Q4**
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23	M. Serabanda, **B. Suresh Kumar,** G. Mallesham, "Mitigation of harmonics in a grid system with sliding mode fractional order controller integrated UPQC" Dizhen Dizhi Journal, Vol-15, Issue 11, **Nov-2023**, ISSN:0253-4967, pp.1-10,
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27	Ravindhar B, **Suresh Kumar B**, Mangu B, "Optimal Coordinated Voltage Control in Distribution Systems with Smart Inverter-Interfaced Solar PV Penetration: A Discrete Jellyfish

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Conference Publications (19-Scopus Indexed)

S.No	Conference Publication
1	Thota Srinivas, **K.Krishna Veni,** P.Sathish kumar, "Battery Supported Solar PV Panel Based Multilevel Inverter with Optimal PI Controller Using Hybrid GA-PSO Algorithm", Proceedings of Second International Conference on Emerging Trends in Engineering (ICETE 2023), http://doi.org//10.2991/978-94-6463-252-1_73, **Nov-2023**, Atlantis Press, part of **Springer Nature**.
2	Budharapu, A., Amaan, M., Ramagiri, P., **Krishnaveni, K.** (2023). Facial Recognition System

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3	**M Balasubbareddy, P Venkata Prasad, Kowstubha Palle**, (2023) " Power Quality Conditioner with Hybrid Ant Colony Optimization", International Conference on Evolutionary Artificial Intelligence (ICEAI 2023) during 13th -14th September 2023 at RVS College of Engineering and Technology, Coimbatore, India
	P. Rajendran, J. Ranga, **P. V. Prasad, B. Mallala,** G. Senthilkumar and N. L, "Development of Intelligent Power Quality Management in Renewable Energy System in Smart Grid using Deep Learning," *2024 International Conference on Inventive Computation Technologies (ICICT)*, Lalitpur, Nepal, **June-2024**, pp. 1178-1182, doi: 10.1109/ICICT60155.2024.10544835, **Scopus Indexed.**
4	G. Senthilkumar, **B. Mallala**, S. Sivarajan, **C. Harish, D. Harsha** and N. L, "Maximizing Power Utilization through Machine Learning and IoT based Power Flow Strategies in DC Micro Grids with Renewable Energy Resources," *International Conference on Inventive Computation Technologies (ICICT)*, Lalitpur, Nepal, 24-26, April-2024, pp. 1166-1171, doi: 10.1109/ICICT60155.2024.10544791, ISBN: 979-8-3503-5929-9
5	**Balasubbareddy Mallala,** Azka Ihtesham Uddin Ahmed, **P. Venkata Prasad, P. Kowstubha** (2023), "Development of Renewable Energy System For Enhancing Reliability of Power", International Conference on Evolutionary Computing and Networks (ICECMSN 2023), during 9th -10th November 2023 at Hindusthan Institute of Technology in Coimbatore, Tamil Nadu, India
6	N. Hariharan, R. Balakrishnan, B. Ravisankar, D. Karthik Prabhu, **B. Suresh Kumar** and S. Srimathi, "Short-term load forecasting using Artificial Bee Colony Optimization with Deep Learning Model on Power Systems," 2024 Second International Conference on Smart Technologies for Power and Renewable Energy (SPECon), Ernakulam, India, 02-04-April-2024, pp. 1-6, doi: 10.1109/SPECon61254.2024.10537335., Scopus Indexed
7	E. Manigandan, P. Anispremkoilraj, **B. S. Kumar**, S. M. Satre, A. Chauhan and C. Jeyaganthan, "An Effective BiLSTM-CRF Based Approach to Predict Student Achievement: An Experimental Evaluation," 2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), Bengaluru, India, Jan-2024, pp. 779-784, doi: 10.1109/IDCIoT59759.2024.10467973, Scopus Indexed
8	**B. Suresh Kumar**, "Prediction of Injuries and Fatalities in Aircraft Accidents through Ensemble Hybrid C-Seresnet Approach", International Conference on Computer Communication and Informatics (ICCCI), 14th International Conference, 29th to 31st January 2024.
9	**B. Suresh Kumar,** "Enhancing Assessment in Distance Education: Open Ended Questions and Innovative Measurement Techniques with SVM-WOA Approach.", International Conference on Computer Communication and Informatics (ICCCI), 14th International Conference, 29th to 31st January 2024.
10	P. B. Narayana, G. Mahalakshmi, Y. R. M, B. S. Kumar, R. B. R. Prakash and D. Suganthi, "A Study on Battery Storage Exploitation using Reinforcement Learning," 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), Salem, India, 2023, pp. 467-473, doi: 10.1109/ICAAIC56838.2023.10141011.
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16	P. R. Satpathy, **S. Babu Thanikanti**, S. R. Krishna Madeti, R. Sharma and V. K. Ramachandaramurthy, "A Ladder Architecture for Power Improvement and Multi-Peaks Elimination in PV Arrays during Non-Uniform Irradiance Scenarios," *2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG)*, Wollongong, Australia, **Dec-2023**, pp. 1-6, doi: 10.1109/ETFG55873.2023.10408713, ISBN:978-166547164-0, **Scopus Indexed**.
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20	Karthik Balasubramanian; **N V Phanendra Babu**; S Gnana Prasanna; K Shiva Shant; D Akshay; **T Murali Krishna**; Saptarshi Roy; Dipankar Chatterjee, "Residential Energy Management System using Machine Learning Algorithms," *2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA)*, NIT-Manipur, 29th-30th, Sep--2023, Imphal, India, pp. 487-492, ISBN: 979-835038197-9 doi: 10.1109/ICIDeA59866.2023.10295213, **IEEE, Scopus Indexed.**
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23	Sathish Kumar, Vankadara Sampath Kumar, Dr.N.Joshna, **Dr.Madhulika Das** and Y.Rambabu,

	"A HP-ETDM Model for Achieving Carbon Neutrality in Industrial Energy", 2023 IEEE International Conference on Multidisciplinary Research in Technology and Management, Bangalore, India, September 22-23, 2023
24	**Ahmad Syed** , Nagaraju Budidha , N.Kalpana , Tara Kalyani Sandipamu and Freddy Tan Kheng Suan" A Comprehensive Analysis of AC-Decoupling Techniques for Common Mode Leakage Current Reduction "4th International Conference on Advanced Engineering Optimization Through Intelligent Techniques(AEOTIT), Sardar Vallabhbhai National Institute of Technology Surat, Gujarat, Springer Proceedings and special issues of few international journals of repute September 28-30, 2023.

Book Chapters - 8

S.No	Book Chapters
1	Kumar, Pramendra, Widjaja, Gunawan, Patankar, Nikhil S. and Suresh Kumar, B, "A Novel block chain based artificial intelligence application for healthcare automation", *Toward Artificial General Intelligence: Deep Learning, Neural Networks, Generative AI*, edited by Victor Hugo C. de Albuquerque, Pethuru Raj and Satya Prakash Yadav, Berlin, Boston: De Gruyter, 2024, pp.373-386. doi: 10.1515/9783111323749-019.
2	Koushal, Anurag, Yogesh K. Chauhan, Rupendra Kumar Pachauri, **Thanikanti Sudhakar Babu**, and Ali Q. Al-Shetwi. "An investigation of a photovoltaic system under distinguished thermal environment conditions." Green Energy Systems: Design, Modelling, Synthesis and Applications (2023): https://www.sciencedirect.com/science/article/abs/pii/B978032395108100001X, ISBN: 978-0-323-95108-1
3	Palpandian Murugesan, Prince Winston David, Rajvikram Madurai Elavarasan, G.M. Shafiullah, Praveen Kumar Balachandran and **Thanikanti Sudhakar Babu**. "A jigsaw puzzle-based reconfiguration technique for renhancing maximum power in partially shaded hybrid photovoltaic array methodology." Green Energy Systems: Design, Modelling, Synthesis and Applications (2023): https://www.sciencedirect.com/science/article/abs/pii/B9780323951081000094, ISBN: 978-0-323-95108-1
4	Siow, C. H., Rodney HG Tan, and **T. Sudhakar Babu.** "Modeling and comparative study of half-cut cell and standard cell photovoltaic modules under partial shading conditions." In Performance Enhancement and Control of Photovoltaic Systems, pp. 161-180. Elsevier, **Jan-2024**. ISBN: 978-044313392-3, 978-044313393-0, DOI: 10.1016/B978-0-443-13392-3.00008-6
5	Satpathy, Priya Ranjan, Sudhakar Babu Thanikanti, Belqasem Aljafari, and Pritam Bhowmik. "Parameters Sensitivity of Solar Photovoltaic Array Architectures under Incremental Row and Column Shading." *Smart Grids as Cyber Physical Systems: Artificial Intelligence, Cybersecurity, and Clean Energy for Next Generation Smart Grids*, wiley, Vol1 (Apr-2024): 41-54. ISBN: 978-139426172-7, 978-139426169-7, DOI: 10.1002/9781394261727.ch4
6	**Ahmad Syed,** S.Tara Kalyani, Xiaoqiang Guo, B.Mouli chandra, Huai wang and Freddy Tan Kheng Suan "Evaluation of single-phase rectifier bridge clamping circuit solar power transformerless inverter topologies for electric vehicle applications" The Future of Road Transportation Electrification and Automation CRC Press Taylor & Francis Group eISBN:9781003354901 Nov 2023, pp.114-135 **ISBN:** 978-100335490-1, 978-103240833-0, **DOI:** 10.1201/9781003354901-6
7	**Ahmad Syed,** S.Tara Kalyani, Xiaoqiang Guo, B.Mouli chandra ,Huai wang and Freddy Tan Kheng Suan "Analysis of recent developments in three-phase transformerless inverter topologies for photovoltaic and Electric Vehicle applications" The Future of Road Transportation Electrification and Automation CRC Press Taylor & Francis Group eISBN:9781003354901, pp.91-113, Nov 2023, **ISBN:**978-100335490-1, 978-103240833-0, **DOI:** 10.1201/9781003354901-5
8	**Ahmad Syed,** S.Tara Kalyani, Xiaoqiang Guo and Freddy Tan Kheng Suan, **Suresh Babu G,** Huai Wang "Recent advancements and challenges of Powertrain Technologies in Electric Vehicles applications". The Future of Road Transportation Electrification and Automation, CRC Press, Taylor & Francis Group. eISBN:9781003354901, pp.69-90, Nov 2023, **ISBN:**978-

	100335490-1, 978-103240833-0, **DOI:**10.1201/9781003354901-4

Academic Year 2022-23

International Journals Publications:58(SCI-2, SCIE/WoS-12, Scopus-16, UGC/Other-9)

1. B. Muthuraj, **G. Suresh Babu**, **K. Krishnaveni**& S. Arun Jayakar. "Parameters' Optimization in Compressed Air Pressure Process Using Hybrid F_{min}–GA-Based PID and Fractional Order Internal Model Controller", IETE Journal of Research, 5/12/2022, ISSN-0377-2063, IF:1.76 doi: 10.1080/03772063.2022.2139297 **Taylor & Fransis, Q3-SCIE**

2. Bukhya Bhav Singh, ,**G.Suresh Babu**, B.Mangu; "Comparison of Series/Series and Parallel /Series resonance circuit in 1.5 kW Inductive wireless Power Transfer for EV applications", Journal of Electrical and Electronic Engineering , Vol 11, issue 1, pp.1-14, 30/06/2023, ISSN :2329-1613(P), 2329-1605(ONLINE); doi:10.11648/J.JEEE.20231101.11; **Science Publishing Group (Q not assigned)**

3. **Balasubbareddy Mallala, Venkata Prasad Papana, KowstubhaPalle**, "Multi-Objective Optimization in the Presence of OGIPFC using NSMMP Algorithm", Recent Advances in Electrical & Electronic Engineering, March 2023, ISSN: 2352-0965(P), 2352-0973)(O), doi: 10.2174/2352096516666230504105054 (Bentham Science) **SCOPUS, ESCI, Q-4**

4. **Mallala Balasubbareddy**, Divyanshi Dwivedi, Garikamukkala Venkata Krishna Murthy, Kotte Sowjan Kumar, "Optimal power flow solution with current injection model of generalized interline power flow controller using ameliorated ant lion optimization", International Journal of Electrical and Computer Engineering, Vol. 13, No. 1, February 2023, pp.1060-1077, ISSN:2088-8708, DOI: 10.11591/ijece.v13i1.pp1060-1077 (**Q2 Journal) SCIE,** Institute of Advanced Engineering and Science (IAES)

5. **M. Balasubbareddy**, D. Dwivedi**, P. V. Prasad** (2023), "Optimal power flow solution using HFSS Algorithm", Journal of Electrical and Electronics Engineering Research, Volume 12, Issue 1, March 2023, pp. 1-11, ISSN: 2141-2367, DOI: 10.5897/JEEER2022.0659**, Academic Journals, (Q not assigned)**

6. **B.Suresh Kumar,** V. Abhinav Varma, S. Devika Rani, A. Nishanth, "Fault Detection and Classification using Machine Learning "International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653, Volume 11 Issue IV, pp.3063-3069, Apr 2023, **doi:10.22214/ijraset.2023.50867** (IJRASET) **International Journal, (Q not assigned)**

7. Savitri Swathi, **Bhaskaruni Suresh Kumar**, Jalla Upendar, "Voltage and frequency stabilization by fuzzy integrated droop control of a multi renewable source micro grid" Indonesian Journal of Electrical Engineering and Computer Science, Vol.30, No-3, June-2023, pp.1308-1320, ISSN: 2502-4752, DOI: 10.11591/ijeecs.v30.i3.pp1308-1320**,** Institute of Advanced Engineering and Science (IAES), (**Scopus Indexed, Q3 Journal)**

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1. **P.V.Prasad,** Tejaswini, Ravali, Sowmya, "Performance Analysis of Flyback Micro Inverter With H5 Inverter" International conference, ICEAT21,DOI:978-93-5406-579-8, 2nd International conference on Engineering and Advancement in Technology-2021 organized by Lords Institute of Technology on 16th & 17th July-2022, ISBN:978-93-81288-22-1.

2. **P.Venkata Prasad**, **M.Balasubb Reddy**, "Combined optimization in Radial distribution system using CPSO" International conference on Advances in Communications, Computing, & Electronic Systems (ACCES2022), organized by Avanthi Institute of Engineering Technology, Vizianaganram, on 6th & 7th May 2022.

3. **M. Balasubbareddy,** K. Venkata Sri Ram, S. Ravindra, "Modelling and design of FPGA based power Quality Analyzer", International Conference on Advances in Communications, Computer Vision and Electrical System Technologies (ICACCEST-2022) on 4th -5th March 2022 at VVIT, Guntur.

4. **M. Balasubbareddy, P. Venkata Prasad, Ch. Venkata Krishnan Reddy**, "Simulation of Power Quality Conditioner with Fuzzy Logic Controller", International Conference on Advances in Communications, Computer Vision and Electrical System Technologies (ICACCEST-2022) on 4th-5th March 2022 at VVIT, Guntur.

5. **M. Balasubbareddy,** S. Ravindra (2022), "Design of Hardware Unified Power Quality Conditioner to Mitigate Sag and Swell", 8th International Conference on Microelectronics, Circuits, and Systems, doi:10.1007/978-981-99-0412-9, ISBN:978-981-99-0412-9, **Springer**.

6. Bhukya, S., Bharadwaj.A., **Murali Krishna. T**, **Babu, N. P.,** Maiti, S, "Performance Evaluation of Dual Active Bridge Converter for Energy Storage Integration With STATCOM", Second International Conference on Power, Control and Computing Technologies (ICPC2T), organized by NIT Raipur 01st-03rd March 2022, doi:10.1109/ICPC2T53885.2022.9776792, INSPEC Accession Number: 21779727, **IEEE,** ISBN:978-1-6654-5858-0/22

7. Bhukya, S., Bharadwaj, A., **Murali Krishna. T, Babu, N. P.,** Mallesham, G, "Control and Performance Analysis of Multifunctional Two Level STATCOM fed with Battery Storage System", Second International Conference on Power, Control and Computing Technologies (ICPC2T), organized by NIT Raipur 01st-03rd March 2022, doi:10.1109/ICPC2T53885.2022.9777063, INSPEC Accession Number: 21764272, **IEEE,** ISBN:978-1-6654-5858-0/22

8. Kasoju Bharath Kumar, A. Bhanuchandar, Rajakumar Sakhile, Bandela Supriya, **Kowstubha Palle**, C Mahesh, "Symmetric Source Configuration of Nine Level Multi Level DC Link Inverter Topology Using Nearest Level Control and Unipolar Phase Disposition PWM Techniques", International Conference on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021) organized by NIT Jamshedpur, 6th -8th September 2021, DOI: 10.1007/978-981-19-4975-3_16, Lecture Notes in Electrical Engineering, vol 927. **Springer**

9. K. B. Kumar, A. Bhanuchandar, B. Supriya, D. Vamshy, **Kowstubha. Palle** and R. Sakile, "A Unipolar Phase Disposition Pulse Width Modulation Technique for an Asymmetrical Multilevel Inverter Topology," pp. 156-161, International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT), organized by IEEE Vizag Bay section 13th-14th

November-2021, doi:10.1109/ICISSGT52025.2021.00041, ISBN:978-1-6654-0416-7, **IEEE,** INSPEC Accession Number: 21740312

10. Pavan Kumar Dharmoju, Karthik Yeluripati, Jahnavi Guduri, **Kowstubha Palle** "Forecasting Electrical Demand for the Residential Sector at the National Level Using Deep Learning", 1st IEEE International Conference on Artificial Intelligence and Machine Vision (AIMV) organized by Pandit Deendayal Energy University, Gandhinagar 24th-26th September-2021. DOI:10.1109/AIMV53313.2021.9670956, ISBN**:**978-1-6654-4211/4/21, **IEEE**, INSPEC Accession Number: 21570630

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16. Sain, Chiranjit, Atanu Banerjee, Pabitra Kumar Biswas, **Sudhakar Babu Thanikanti,** and Karthik Balasubramanian, "Different Control Mechanisms of a PMSM Drive for Electrified Transportation—A Survey", Smart Innovation, Systems and Technologies book series Vol-229, pp.395-405, **Springer,** ISBN:978-981-16-1777-5, doi:10.1007/978-981-16-1777-5_25,

17. Natarajan, Sudhakar, Karthik Balasubramanian, PriyaRanjan Satpathy, and **Thanikanti Sudhakar Babu**, "Universal Motor with On-Off Controller for Washing Machine Application", International Conference on Advances in Power, Signal, and Information Technology (APSIT), by Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, 8th-10th Oct-2021, **IEEE,** doi:10.1109/APSIT52773.2021.9641321, ISBN:978-1-6654-2506-3.

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Interleaved Boost Converter", International Conference on Advances in Power, Signal, and Information Technology (APSIT), by Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, 8th-10th Oct-2021, **IEEE,** ISBN:978-1-6654-2506-3, doi:10.1109/APSIT52773.2021.9641396

19. **Ch.Venkata Krishna Reddy,** T.R.Vijaya Lakshmi, " Modelling of Patterns with Spectral Data and Time- Varying PSO to Identify Concealed Character Strokes of Historical Manuscripts", International Conference on Data Science and Applications, Lecture Notes in Networks and Systems, Vol. 287, pp: 471-482, **Springer,** ISBN:978-981-16-5347-6, doi:10.1007/978-981-16-5348-3_37

20. N. Saiteja, G. Rakesh, P. Mahaveer**, N.Santosh Kumar** (Asst. Prof.) " Voltage sag and swell mitigation in a transmission line using Dynamic Voltage Restorer" 2nd International conference on Engineering and Advancement in Technology 2021, organized by LORDS institute of Engineering and Technology, Hyderabad. 16th and 17th July 2021,

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24. **Vijay BabuPamshetti,** V V S N Murty, S P Singh and Ashwani Kumar, "Multi-objective Stochastic Volt/VAR Optimization in AC-DC Hybrid Distribution Network Considering Soft Open Point", Renewable Energy Towards Smart Grid, Vol-823, pp.295-308, **Springer,** doi:10.1007/978-981-16-7472-3_23, ISBN: 978-981-16-7471-6

National Conference Publications: 3

1. **P.V.Prasad** ,Sunchu Sneha, "Optimal capacitor placement for radial distribution system" Research day celebrations, Organized by R&D Center of CBIT, Organized by R&D cell, CBIT on 28th August 2021. **National conference**

2. Bhukya, S., Bharadwaj, A**., Murali Krishna. T, Babu, N. P**., Mallesham, G., &Maiti, S. "Control of Asymmetrical Multilevel STATCOM with Hybrid Energy System", National Power Electronics Conference (NPEC), India, 2021, pp. 1-6, organized by IIT Bhubaneswar during 15th-17th Dec. 2021, doi:10.1109/NPEC52100.2021.9672496, INSPEC Accession Number: 21573208, **National conference.**

3. **C. Srisailam,** M. Manjula, "Fractional Order Controller based Performance Enhancement of Electric Vehicle System", Proceedings of the National Conference on Future Electricity Systems: Challenges and Current Trends (NCEFES2021) Institution of India 28th November 2021.- **National conference**

Academic Year: 2020-21

International Journal Publications: 66(SCI-12, Scopus-7, WoS-2, UGC/Other-45)

SCI Indexed Journal Publications - 12

1. Abd Elaziz, Mohamed, **Sudhakar Babu T**, Anwar Ibrahim, Songfeng Lu, Benedetto Nastasi, Majed A. Alotaibi, Md Alamgir Hossain, and Dalia Yousri. "Enhanced Marine Predators Algorithm for identifying static and dynamic Photovoltaic models parameters" Energy Conversion and Management 236 (May-2021): ISSN: 0011-3971. https://doi.org/10.1016/j.enconman.2021.113971, **SCI Indexed, Impact Factor: 9.70.**

2. PandiaRajan Jeyaraj, Aravind Chellachi Kathiresan, Siva Prakash Asokan, Edward Rajan Samuel Nadar, HegazyRezk, and **T Sudhakar Babu**. "Power System Resiliency and Wide Area Control Employing Deep Learning Algorithm" Computers, Materials & Continua Tech Science Press, March-2021, vol.68, no.1, pp. 553-567, DOI: 10.32604/cmc.2021.015128, **SCI Indexed, ISSN: 1546-2218, Impact Factor: 3.772**

3. Yousri, Dalia, SeyedaliMirjalili, JA Tenreiro Machado, **Sudhakar Babu Thanikanti**, and Ahmed Fathy. "Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling." Engineering Applications of Artificial Intelligence 100 (April-2021): 104193. https://doi.org/10.1016/j.engappai.2021.104193, **SCI Indexed, ISSN:0952-1976, Impact Factor: 6.212**

4. Sain, Chiranjit, Pabitra Kumar Biswas, PriyaRanjanSatpathy, **Thanikanti Sudhakar Babu**, and Hassan HaesAlhelou. "Self-Controlled PMSM Drive Employed in Light Electric Vehicle-Dynamic Strategy and Performance Optimization." IEEE Access 9 (2021): pp57967-57975, ISSN: 2169-3536, DOI: 10.1109/ACCESS.2021.3072910, **SCI Indexed, Impact Factor: 3.367.**

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5. **N. V. Phanendra BABU**, P. Suresh BABU, D. V. S. S. Siva SARMA, "Critical Elements Based Optimal PMU Placement Considering Substation Coverage", International Journal on Electrical Engineering and Informatics, Vol. 12, No. 3, pp. 418-430, September, 2020, ISSN 2087-5886, **Impact Factor: 1.4**, DOI: 10.15676/ijeei.2020.12.3.2, **(Scopus Indexed)**

6. **N. V. Phanendrababu**, "Optimal Selection of Phasor Measurement Units, Springer Textbook: Wide Area Power Systems Stability, Protection, and Security, pp. 127-166, Feb-2021, ISSN: 1612-1287, 2021, DOI: 10.1007/978-3-030-54275-7_5, **Impact factor: 0.6 (Scopus Indexed)**

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2. Hansaraj Shalikram Wankhede, **N.Vasantha Gowri**., Bharath M N., Priyanka Sharma, "An Internet of Things For Prevention Of Security Attack On Cloud Medical Data Using Artifical Intelligence", International Journal of Grid and Distributed Computing,, Vol. 14, No. 1, pp. 1143-1161, March 2021, ISSN 2005-4262, **Impact Factor: 0.368**, **Web of Science Indexed**

UGC/Other Journal Publications – 45

1. **K. Krishnaveni,** M. Swamy Das**, G. Suresh Babu, T. Murali Krishna and N. Vasantha Gowri**, "Alternative Approaches for Laboratory Learning and Assessment in Engineering Education - Open Source Alternatives", International Journal of Electrical Engineering and Technology (IJEET), Vol 12, No(6), 2021, pp. 221-230, doi: 10.34218/IJEET.12.6.2021.021. Impact factor-3.07,

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3. **K. Krishnaveni**, "Assessment and Evaluation of Professional Skills in Engineering Education", Journal of Interdisciplinary Cycle Research, Vol. 13, No. 6, pp. 986-996, June 2021, ISSN 0022-1945, **Impact factor –6.2,**
4. **K. Krishnaveni** S. Yoganand Sagar, G.Akhil Reddy, D. Ruchidhar, "Implementation of IoT Controlled Portable Cooler Using Renewable Energy", Proteus Journal, Vol 12 No.6, 2021, ISSN/eISSN: 0889-6348, pp. 37-41**, Impact factor-1.25,**

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6. S. Rajesh**, P. Venkata Prasad**,P. Srinivas, "Stability Enhancement of Doubly Fed Induction Generator With Virtual Resistance Under Network Disturbances", International Research Journal of Engineering and Technology (IRJET), Vol-07, Issue-12, pp.2182-2193, Dec-2020, ISSN:2395-0056, **Impact Factor-7.529.**

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16. Kamalakar P., **Suresh Kumar B**. and Upendar, "21 Level Inverter Topologies" Invertis Journal of Science & Technology Vol. 13, No. 3, July-Sep 2020, pp.140-152, ISSN 2454-762X.

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International Conference Publications: 10

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2. **M Balasubbareddy, P Venkata Prasad**, S Varshini, A D Sarma presented a paper "AI based Cyber-attack Resistant Microgrid System with IRNSS Synchronization" in A Two day International Conference on "Emerging Trends in Circuit branch Technologies and Applications" (ETCTA-2021), , held at CBIT, Hyderabad during 3-4 Apr 2021.

3. **M Balasubbareddy**, S Varshini, presented a paper "Power quality conditioning by UPQC using dq theory" in A Two day International Conference on "Emerging Trends in Circuit branch Technologies and Applications" (ETCTA-2021), held at CBIT, Hyderabad during 3-4 Apr 2021.

4. Tipirisetti Rakesh, **B. Suresh Kumar**, J. Upendar , presented a paper "Lithium Ion Battery" in the International Web Conference on "Innovative Engineering Technologies - 2020" jointly organized by the Department of EEE and ECE, Sri Ramakrishna Institute of Technology, Coimbatore -10 on August 5th 2020

5. Dr. S. Swathi, **B.Suresh Kumar**, J. Upendar "Power Quality Concerns in Implementing Smart Distribution Grid Applications" in the International Conference on "Emerging Trends in Circuit branch Technologies and Applications" virtually on 3rd-4th April 2021 at Chaitanya Bharathi Institute of Technology (A), Hyderabad – 500 075, Telangana, India.

6. **B.Suresh Kumar** –et al published title on "Selection of Power Inverter Configuration for Dual redundancy technique with fault diagnosis and fault tolerance" virtual Int. Conf on ICPI-2020 organized by Dept of EEE and IEEE student branch by K. Ramakrishnan college of Engineering on 22nd 23rdjuly 2020.

7. T R Vijaya Lakshmi, Y Rakesh Kumar, **Ch.V.Krishna Reddy**, L Pratap Reddy presented a paper "Dehaze model to improve Object Visibility under atmospheric degradation" in IEEE International Conference on Intelligent Sustainable Systems, held at Tamilanadu during 3rd-4th DEC 2020. **DOI:** 10.1109/ICISS49785.2020.9316018, **IEEE**

8. **Illinda Pranav** and Kola Leleedhar Rao presented a paper “Geothermal Power Generation : Global Updates” in E-Conference on" Energy, Control, Computing and Electronic Systems" (E-ICECCES2020), held at Sree, Vidyanikethan Engg. College, Tirupathi during 27th-29th NOV 2020.

9. Saptarshi Roy, **N V Phanendra Babu**, P Suresh Babu, presented a paper “Correlation Factor-based Fault-Phase Detection for Series Compensated Transmission Line” in IEEE-ASPCON2020, held at Jadavpur University, Kolkata, **IEEE**
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10. **Ahmad Syed,** Tara Kalyani Sandipamu, Freddy Tan Kheng Suan, Xiaoqiang Guo, Huai wang presented a paper “A Modified H-Bridge Transformer less PhotoVoltaic Neutral-point-clamped inverter with constant common mode voltage” in 2020 International Conference on Power, Instrumentation, Control and Computing (PICC),held at Government Engineering college Thrissur,Kerala,India during 17th to 19th December 2020, **IEEE**
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National Conference Publications: 01

1. **B. Suresh Kumar** “Hardware Implementation and MATLAB Simulation of Automatic power factor correction” in A Two-Day National Level e-Conference on “Recent Advances in Technology & Engineering (CRATE-2020)” organized by the Dept. of Electrical & Electronics Engineering from 20th to 21st August 2020.