

Siddhartha Academy of Higher Education-Deemed to be University

(formerly Velagapudi Ramakrishna Siddhartha Engineering College)

Department of Electrical and Electronics Engineering

Faculty Publications for the Academic Year: 2024-25

International Journals (32)

SCI/SCIE: 19, SCOPUS: 4, ESCI: 9

Q1: 5 Q2: 18 Q3: 6 Q4: 1 UG: 1

Sl. No.	Name of the Faculty/ Students	Name of the Paper	Name of the Journal	Volume No., Issue etc.	SCI/ SCIE/ ESCI/ SCOPUS	Impact Factor	Q- Index	UG/ PG
1	Subhojit Dawn , S. S. Das, M. Ramesh, G. Seshadri, S. R. Inkollu, T. K. S. Pandraju, U. Cali and Taha Selim Ustun	Risk Alleviation and Social Welfare Maximization by the Placement of Fuel Cell and UPFC in a Renewable Integrated System	Frontiers in Energy Research	vol. 12, pp. 1428458, Aug. 2024. DOI: 10.3389/fenrg.2024.1428458	SCIE	2.6	Q2	-
2	Subhojit Dawn , A Ramakrishna, M Ramesh, Shreya Shree Das, K. Dhananjay Rao , Umit Cali and Taha Selim Ustun	Profit Maximization of a Wind-Integrated Deregulated System using V2G Techniques and TCSC Placement	Frontiers in Energy Research	Vol. 12, Sept. 2024. DOI: 10.3389/fenrg.2024.1400745	SCIE	2.6	Q2	-
3	Subhojit Dawn , A. Ramakrishna, M. Ramesh, Shreya Shree Das, K. Dhananjay Rao , Md. Minarul Islam and Taha Selim Ustun	Integration of Renewable Energy in Microgrids and Smart Grids in Deregulated Power Systems: A Comparative	Advanced Energy and Sustainability Research	Vol. 5, no. 10, pp. 2400088, Aug. 2024. DOI: 10.1002/aesr.202400088	ESCI & SCOPUS	6.2	-	-

		Exploration						
4	Punam Das, Subhojit Dawn , Sadhan Gope, Diptanu Das, Ferdinando Salata	Optimal Reactive Power Dispatch and Demand Response in Electricity Market Using Multi-objective Grasshopper Optimization Algorithm	Processes	Vol. 12, no. 9, pp. 2049, Sept. 2024. DOI: 10.3390/pr12092049	SCIE	2.8	Q2	-
5	R. C. Vankina , S. Gope, S. Dawn , F. Alsaif and T. S. Ustun	An Approach for Attaining Economic Profit by Optimal Operation of Hybrid Thermal-Wind-PHS-EV System in a Deregulated System	IEEE Access	vol. 12, pp. 95684-95702, July 2024. DOI: 10.1109/ACCESS.2024.3426324	SCIE	3.9	Q1	-
6	Chowdary Vankina Ravindranadh , Sadhan Gope, Subhojit Dawn , Ahmed Al Mansur, and Taha Selim Ustun	An Effective Strategy for Achieving Economic Reliability by Optimal Coordination of Hybrid Thermal–Wind–EV System in a Deregulated System	World Electric Vehicle Journal	vol. 15, no. 7, pp. 289, July 2024. Doi: 10.3390/wevj15070289	(ESCI and SCOPUS)	2.6	Q2	-
7	T. Papi Naidu, G. Balasubramanian and B Venkateswararao	Weighted sum method based multi-objective optimal power flow considering various objectives: an application of whale optimization algorithm	International Journal of Applied Power Engineering (IJAPE)	vol. 13, no. 4, , pp. 963-972, Dec. 2024. DOI: 10.11591/ijape.v13.i4.pp963-972	SCOPUS	0.4	Q3	-
8	Sela Naga Venkata Sri Krishna Chaitanya , R. Ashok Bakkiyaraj, Bathina Venkateswara Rao , and Kalikrishnan Jayanthi	Optimal reactive power dispatch using modified-ant lion optimizer with flexible AC transmission systems devices	Bulletin of Electrical Engineering and Informatics	vol. 14, no. 1, pp. 11-20, Feb. 2025. DOI: 10.11591/eei.v14i1.5882	SCOPUS	0.689	Q3	-
9	K. Dhananjay Rao , A.	A Hyperparameter-	IEEE Access	vol. 12, pp. 127259 – 127271, Aug.	SCIE	3.4	Q1	-

	Ramakrishna, M. Ramesh, P.A.L.L.A.N.T.I. Koushik, Subhojit Dawn , P. Pavani, Taha Selim Ustun, and Umit Cali	tuned LSTM Technique-based Battery Remaining Useful Life Estimation Considering Incremental Capacity Curves		2024. DOI: 10.1109/ACCESS.2024.3450871				
10	Chappa A., K. Dhananjay Rao , Dhananjaya M., Dawn S. , Al Mansur A., and Ustun T. S.	Machine learning based fault detection technique for hybrid multi-level inverter topology	The Journal of Engineering	vol. 2024, no. 9, pp. e70001, Sept. 2024. DOI: 10.1049/tje2.70001	ESCI & SCOPUS	1	-	-
11	Damarla Indira, Bindu Vadlamudi , Venmathi Mahendran, and K. Dhananjay Rao	Analysis of Torque Ripple Investigation on 3-Phase SR Motor Drive for EV Applications	International Journal of Circuit Theory and Applications, Wiley	Vol. 53, no. 5, May 2025. DOI: 10.1002/cta.4266	SCIE	1.8	Q2	-
12	Swathi Dasi, Swarupa Rani Bondalapati , Mummidi P Subbaraju, Divya Nimma, Pradeep Jangir, R Vijaya Kumar Reddy and N Zareena	IoT-Based Intelligent Energy Management for EV Charging Stations	IAENG International Journal of Computer Science	vol. 51, no. 11, pp. 1853-1861, Nov. 2024	SCOPUS	-	Q3	-
13	Koganti Srilakshmi, Krishnaveni Kondreddi, Alapati Ramadevi , R Muniraj and Ramprasad Vangalapudi	Grid connected and standalone renewable source fed UPQC: a hybrid control technique for power quality enhancement	Discover Applied Sciences	vol. 7, pp. 147, Feb. 2025. DOI: 10.1007/s42452-025-06562-9	ESCI & SCOPUS	-	Q2	-
14	Chowdary, R. , Gope, S., Dawn, S. , Al Mansur, A. and Ustun, T.S.	Economic consistency enhancement by optimal operation of hybrid WF-thermal-EV-fuel cell system in a power	IET Generation, Transmission and Distribution	vol. 18, no. 23, pp. 3959–3979, Dec. 2024. DOI: 10.1049/gtd2.13332	SCIE	3.04	Q2	-

		network						
15	Chowdary, V.R., Gope, S., Dawn, S., Islam, M.M. and Ustun, T.S.	Economic sustainability enhancement by the integration of renewable energy in a deregulated system: A study	Energy Exploration and Exploitation	vol. 43, no. 2, Dec. 2024. DOI: 10.1177/01445987241300180	SCIE	2.53	Q2	-
16	K. Dhananjay Rao., Lakshmi Pujitha, N. N., Rao Ranga, M., Manaswi, C., Dawn, S., Ustun, T. S., and Kalam, A.	Fault mitigation and diagnosis for lithium- ion batteries: a review	Frontiers in Energy Research	vol. 13, pp. 1529608, Feb. 2025. DOI: 10.3389/fenrg.2025.1529608	SCIE	2.6	Q2	-
17	K. V. Sri Ram Prasad, K. Dhananjay Rao, G. N. Ponnada, U. Cali and T. S. Ustun	A Novel Fault Diagnosis of Induction Motor by Using Various Soft Computation Techniques: BESO- RDFA	IEEE Open Access Journal of Power and Energy	Vol. 12, pp. 146-156, Mar. 2025. doi: 10.1109/OAJPE.2025.3547731	ESCI & SCOPUS	3.3	Q1	-
18	Łukasz KNYPIŃSKI, Bathina Venkateswara Rao, Ramesh Devarapalli, Yvonnick LE Menach and Mehmet Cunkas	Optimal design of the switched reluctance motor to the electric vehicle	Przegląd Elektrotechniczny	R. 101, NR. 1/2025, pp. 246-249, Jan. 2025. doi:10.15199/48.2025.01.53	ESCI & SCOPUS	0.17	Q4	-
19	Vijayammal, B.K.P., Cherukupalli, K., Jayaraman, R. and Kannan, E	A Multi-Objective Approach with Modified Particle Swarm Optimization and Hybrid Energy Systems	Tehnički vjesnik	vol. 31, no. 5, pp. 1576-1581, 2024. DOI: 10.17559/TV- 20231213001205	SCIE	1	Q3	-
20	R. Jayaraman, S. Thamizharasan, J. Baskaran, V. Meena, J. Bahadur, and V. K. Jadoun	High-efficiency multilevel inverter topology with minimal switching devices for enhanced power quality and reduced losses	IET Power Electronics	vol. 18, no. 1, pp. e12851, Jan. 2025. DOI: 10.1049/pe12.12851	SCIE	1.7	Q2	-

21	SS Das, B Vadlamudi , MLN Vital , S Dawn , KD Rao , U Cali and TS Ustun	A comparative analysis of the efficient coordination of renewable energy and electric vehicles in a deregulated smart power system	Energy Reports	vol. 13, pp. 3136-3164, June 2025. DOI: 10.1016/j.egy.2025.02.047	SCIE	4.7	Q2	-
22	E. Poongulali, S. Srinivasa Rao, Ramesh Jayaraman and Subramanian Annamalai	Strategic design of mixed-phase nickel sulfide decorated rGO sheets for high-performance dual functionality in DSSC and supercapacitor electrodes	Ionics	Vol. 31, pp. 3591–3605, Feb. 2025. DOI: 10.1007/s11581-025-06139-x	SCIE	0.55	Q2	-
23	SS Das, P Singh, J Kumar, S Dawn and A Ghosh	A machine learning-based approach for maximizing system profit in a power system by imbalance price curtailment	Computers and Electrical Engineering	vol. 121, pp. 109874, Jan. 2025. DOI: 10.1016/j.compeleceng.2024.109874	SCIE	4	Q1	-
24	K. Dhananjay Rao , Kuna Dhanunjaya Rao, P. Pavani, Kapu V. Sri Ram Prasad, Damarla Indira , and B. Phaniteja	A critical review on lithium ion battery modeling, battery management system and thermal runaway issues	Electrical Engineering	Vol. 2025, pp. 1-37, May 2025. DOI: 10.1007/s00202-025-03102-x	SCI	1.6	Q2	-
25	K Bhavana, K Lalitha , Guruswamy Revana and R Amaleswari	An Improved Human Evolutionary Optimization Algorithm for Optimal Integration of Hybrid Fast Charging Stations	International Journal of Intelligent Engineering and Systems	vol. 18, no. 4, March 2025. DOI: 10.22266/ijies2025.0531.52	SCOPUS	-	Q2	-
26	Ganji R., Rambabu K., Damarla I. and B. Veeranarayana	A modified middleware submodule based modular multilevel	Electrical Engineering	Vol. 2025, April 2025. Doi: 10.1007/s00202-025-03025-7	SCI	1.6	Q2	-

		converter topology to reduce the ripple components in the submodule voltage						
27	M. Prem Kumar, N. Vamsi Krishna, A. Veera Reddy, Subhojit Dawn, K. Dhananjay Rao , Taha Selim Ustun and Ahmet Onen	Energy systems: Enhancing efficiency and reducing risk with CAES, fuel cells, and UPFC	Energy Reports	vol. 13, pp. 3878-3897, June 2025. Doi: 10.1016/j.egyr.2025.03.046	SCIE	4.7	Q1	-
28	Subhojit Dawn, S. Manideep, S. S. Rekha, C. R. Rao, K D Rao, A Al Mansur, and T S Ustun	Advancing Renewable Energy Integration in Deregulated Markets: The Role of Energy Storage, EVs, and Policy Frameworks	Energy Exploration & Exploitation	Vol. 2025, June 2025. DOI: 10.1177/01445987251348052.	SCIE	1.9	Q2	UG
29	Mohan Babu Guguloth, Suresh Babu G, Srinivasa Rao Gummadi , Ramya Kambham, NMG Kumar, Ramprasad vangalapudi, B. Pavan Kumar, Vasantha Gowri N, Saroj Pradhan	AI Based Reference Signal Generation for Renewable Source and Energy Storage Incorporated Multilevel UPQC	International Journal of Renewable Energy Research (IJRER)	Vol. 15, no. 2, pp. 384-397, June 2025. DOI: 10.20508/ijrer.v15i2	ESCI & SCOPUS	6.59	Q3	-
30	K. Srilakshmi, A. Ramadevi , J. G. P. Reddy, K. Krishna Jyothi, K. Kondreddi, P.K. Balachandran and I. Colak	A New Control Scheme for Wind/Battery Fed UPQC for the Power Quality Enhancement: A Hybrid Technique	IETE Journal of Research	vol. 70, no. 11, pp. 8184–8191, July 2024. DOI: 10.1080/03772063.2024.2370959	SCIE	1.3	Q3	-
31	Koganti Srilakshmi, Sravanthy Gaddameedhi, Alapati Ramadevi , Praveen Kumar Balachandran, J. Ganesh Prasad Reddy, Ramprasad Vangalapudi	Design and simulation of reduced switch converter based solar PV and energy storage fed shunt active power filter with butterfly optimization	Results in Control and Optimization	vol. 19, pp. 100554, June 2025. DOI: 10.1016/j.rico.2025.100554.	ESCI & SCOPUS	3.2	Q2	-

32	P. Venkatesh , and K. Sri Kumar	Optimal reactive power dispatch with renewable energy sources using Hybrid Whale and sine cosine optimization algorithm	Engineering Research Express	vol. 6, no. 3, pp. 035333, Aug. 2024. DOI: 10.1088/2631-8695/ad6af1	ESCI & SCOPUS	1.6	Q2	-
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International Conferences (56)

SCOPUS: 56 IEEE Conference: 53

UG: 39 PG: 2

Sl. No.	Nmae of the Faculty/ Students	Name of the Paper	Name of the Conference	DOI	SCOPUS	IEEE/ Others	UG / PG
1	C. Jahnvi, S. R. Gummadi , U. Gunteiah, J. Tulluri and D. Niharika	Enhancing matrix converter output voltage control through fuzzy logic controller	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717585	SCOPUS	IEEE	UG
2	G. N. Nikhita, N. Sunny, S. P. Teja and G. S. Rao	MilkEase-Simplifying Daily Dairy Needs with a User-Friendly App	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717544	SCOPUS	IEEE	UG
3	M. R. Ranga, V. Rao Bathina and S. Kotni	A review of solar cell parameters extraction using metaheuristic optimization methods based on various diode models	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717470	SCOPUS	IEEE	-
4	Cherukumpalem Mohiddin Khan, S.V.R Lakshmi Kumari , Chundi Vinay	Performance Analysis of Solar MPPT Methods under Varied	2024 International Conference on Computational Intelligence for Green and Sustainable	10.1109/ICIGST60741.2024.10717526	SCOPUS	IEEE	UG

	Kumar, Mekala Hema and Rayipudi Angel	Shaded Conditions	Technologies (ICCI GST), Vijayawada, India				
5	T. Nagadurga, P.V.R.L. Narasimham and V. S. Vakula	Comparative Evaluation of Optimization Algorithms for Maximum Power Point Tracking under Partial Shading Conditions	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717504	SCOPUS	IEEE	-
6	N. Eedara, N. V. S. K. Chaitanya Sela , P. Veeranalala and J. Pedakapu	Machine Learning for Intelligent EV Charging Slot Booking During Low-Cost Grid Periods	2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India	10.1109/I2CT61223.2024.10543694	SCOPUS	IEEE	UG
7	P. Veeranalala, S. N. V. S. K. Chaitanya , N. Eedara and J. Pedakapu	Smart Trolley for Supermarkets Using IoT	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717557	SCOPUS	IEEE	UG
8	M. Sumanth, S. N. V. S. K. Chaithanya , N. B. Nouluri, J. Kokkiligadda and P. N. Puthi	Solar Water Pumping System with BLDC Motor and ANN-based MPPT Technique	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717503	SCOPUS	IEEE	UG
9	D. Tatababu, M. R. Ranga , D. Satyanarayana, Y. Jyothi and A. R. Devi	Smart Fuel Monitoring System For Diesel Generator	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717583	SCOPUS	IEEE	UG
10	S. Narava, V. R. Aduru , A. Pujitha, T. R. Gemini and B. Sumanth	Brain Tumor Segmentation using Spatial Fuzzy C-means(SFCM) and CNN Fusion	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717595	SCOPUS	IEEE	UG

11	L. Mane, V. R. Aduru , V. Siliveru, H. Kollu and H. V. Gogulamudi	Comparative Analysis of Machine Learning Algorithms and Neural Networks in Early Detection of Breast Cancer	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717586	SCOPUS	IEEE	UG
12	S. S. Das, Subhojit Dawn , J. Kumar and K. D. Rao	A Real Power Location Price-Based Method for Congestion Reduction by Optimal Operation of UPFC	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India	10.1109/SEFET61574.2024.10717900	SCOPUS	IEEE	-
13	J. B. Basu, Subhojit Dawn , P. K. Saha and M. R. Chakraborty	A review on optimal placement of TCSC in a Fuel cell-wind integrated deregulated power system	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717558	SCOPUS	IEEE	-
14	M. R. Chakraborty, Subhojit Dawn , P. K. Saha and J. B. Basu	Evolution and Present Status of Electric Vehicles: A Comprehensive Review	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India	10.1109/ICIGST60741.2024.10717604	SCOPUS	IEEE	-
15	V. S. Pavan M, Ravindranadh. V , I. S. MD, V. S. Sathish D and P. S. Sankar J	Optimizing Microgrid Performance Using Transient Droop Control	2024 IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS), Bangalore, India	10.1109/ICITEICS61368.2024.10625432	SCOPUS	IEEE	UG
16	K. Dhananjay Rao , P. Pavani, A. Hemachander, S. Dawn and P. Bankupalli	Lithium-IoN Battery Degradation Analysis Using Incremental Capacity Technique	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India	10.1109/SEFET61574.2024.10718256	SCOPUS	IEEE	-
17	N. N. Prabhas, V. K. Jonnalagadda , A. S. Babu, V. M. Kanth and N. Sadhvik	Inertia Enhancement With Grid-Connected Renewable Energy	2024 International Conference on Computational Intelligence for Green and Sustainable	10.1109/ICIGST60741.2024.10717542	SCOPUS	IEEE	UG

		Sources Using K-NN Control Technique	Technologies (ICCI GST), Vijayawada, India				
18	D. Reddy, V. K. Jonnalagadda and P. Hemachandu	Sliding Mode Controller-Based Grid-Tied Solar PV System Using a Novel MPPT Technique	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717582	SCOPUS	IEEE	-
19	R. Jampana, I. Damarla, P. R. Manikanta, V. Pradyumna and R. Aravind	Implementation of a Power Converter for Battery Cell Equalization in EV Applications	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST), Vijayawada, India	10.1109/ICCI GST60741.2024.10717573	SCOPUS	IEEE	UG
20	B. Vadlamudi, I. Damarla, M. Vital and S. Dawn	Detection of Islanding Using Intelligent Classifiers for Integrated Solar Wind Power System	2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India	10.1109/SEFET61574.2024.10718223	SCOPUS	IEEE	-
21	AR Kishore, PESN Krishna Prasad, K. Parish Venkata Kumar, N. Vamsi Krishna and Srinivasa Rao Dokku	Predicting Stock Market Odds Across Time Variations using Deep Learning Algorithms	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCI GST)	10.1109/ICCI GST60741.2024.10717497	SCOPUS	IEEE	-
22	P. Moti begum, G. S. Rao, G. Brahmeswari, Y. Sailakshmi, B. Hemanth Kumar, and D. Yaswanth	Lung Cancer Detection Using Machine Learning	6th International Conference on Innovative Product design and Intelligent Manufacturing Systems (IPDIMS), Rourkela, India, 2024	-	SCOPUS	-	UG
23	B. Vadlamudi and T. Anuradha	A comprehensive review on islanding detection with intelligent classifiers	International Conference on Emerging Technologies in Engineering and Science: Ictes, AIP Conf. Proc. 3162, 2025	10.1063/5.0241788	SCOPUS	AIP	-
24	A. G. Mohana Prasada Rao, B. Vadlamudi and V. R. Bathina	Simulation and Testing of D60 for Under Voltage, over Voltage and	2024 IEEE Silchar Subsection Conference (SILCON 2024), India	10.1109/SILCON63976.2024.10910718	SCOPUS	IEEE	UG

		Instantaneous over Current faults					
25	A. F. Mohammad, V. K. J, S. Katam and V. R. Bathina	Petal Copter Used to Drop Flowers on Honoured Guests During Formal Occasions	2024 IEEE Silchar Subsection Conference (SILCON 2024), India	10.1109/SILCON63976.2024.10910586	SCOPUS	IEEE	UG
26	C. L. P. Chaitanya, M. L. N. Vital , P. Tejaswi, M. Ankitha and P. N. S. SriLatha	A Cognitive Approach to Generate Electrical Energy from Acoustic Medium	2024 IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India	10.1109/ICPEICES62430.2024.10719322	SCOPUS	IEEE	UG
27	Shreya Shree Das, Subhojit Dawn and Jayendra Kumar	LSTM-based Wind Energy Prediction for Short-Term Power and its Impact on System Economy	2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India	10.1109/ICCIGST60741.2024.10717513	SCOPUS	IEEE	-
28	G. N. Nikhita, P. S. Varma, S. P. Teja and G. S. Rao	Obesity level prediction using ML based on eating habits and physical condition	2024 9th International Conference on Communication and Electronics Systems (ICES), Coimbatore, India	10.1109/ICES63552.2024.10860098	SCOPUS	IEEE	UG
29	B. Tejaswi, M. R. Ranga, V. R. Bathina and S. Kotni	Parameter Extraction of Solar Photo Voltaic Module by Using IGWO	2024 OITS International Conference on Information Technology (OCIT), Vijayawada, December	10.1109/OCIT65031.2024.0134	SCOPUS	IEEE	PG
30	A. G. M. P. Rao, B. Vadlamani and V. R. Bathina	Design of Mho Type Distance Relay Scheme for Protection of Transmission Line Using EnerVista Software for D60 Relays	2024 OITS International Conference on Information Technology (OCIT), Vijayawada, India	10.1109/OCIT65031.2024.0129	SCOPUS	IEEE	UG
31	M. R. Sri Ratna Sai Ramya, V. K. J, Y. Moulika and V. R. Bathina	Unmanned Aerial Vehicles to Transport Healthcare Equipment Under Emergency	2024 OITS International Conference on Information Technology (OCIT), Vijayawada, India	10.1109/OCIT65031.2024.0133	SCOPUS	IEEE	UG

32	P. K. Durga, K. Lalitha , E. Nishanth, C. D. Prakash, R. Aravind and B. V. Rao	Economic Load Dispatch Problem Using Different Metaheuristic Algorithms	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10984671	SCOPUS	IEEE	UG
33	M. R. Ranga , V. R. Bathina and S. Kotni	Improved Grey Wolf Optimizer based Parameter Extraction of Multi crystalline Solar Panels	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10985194	SCOPUS	IEEE	-
34	K. V. Kasimalla, S. Tummapudi , K. H. Neelima, S. Kauluri, R. S. N. Harsha Thota and G. Sushma	A Portable Solar Charging System for Electric Bicycles and Batteries	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10984594	SCOPUS	IEEE	UG
35	M. L. N. Vital , D. Indira , R. Jampana, B. V. S. R. Bhuvanesh, N. Ganesh and P. V. Krishna	A New Eleven Level Switched Capacitor Multilevel Inverter with Reduced Power Semi Conductor Devices and Sources	2025 International Conference on Sustainable Energy Technologies and Computational Intelligence (SETCOM), Gandhinagar, India	10.1109/SETCOM64758.2025.10932598	SCOPUS	IEEE	-
36	Abhishek, Ankeswara Rao, Geethika Sravanthi, M. L. N. Vital and M. Sai Praveen	Machine Learning Approaches for Detection and Classification of Power Quality Disturbances	International Conference on Emerging Technologies in Engineering Applications (ICETEA), ICETEA 2025	-	SCOPUS	IEEE	UG
37	G. B. Menti, V. R. Chowdary , N. L. P. Nagasarapu, G. K. Godugunuri, P. Abburi and J. Yerramsetty	Semi-Autonomous Teleoperated Robot for Enhanced Human-Machine Interaction	2025 International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI), Erode, India	-	SCOPUS	IEEE	UG
38	V. R. Chowdary , E. Nishanth, C. Hemanth, M. H.	Improved Virtual Impedance Droop for	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10984915	SCOPUS	IEEE	UG

	Ganesh, C. Charan Raju and P. K. Durga	Different Loads					
39	K. V. Kasimalla, N. Kumar Tadikonda , V. R. Chowdary, G. Babu Menti, V. K. Pamula and G. Kavya Godugunuri	Enhancing Mobility in Autonomous Robotics with a Four-Wheel and Four-Steering System Controlled Remotely via Ubuntu	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10984934	SCOPUS	IEEE	UG
40	N. Vasudha, B. S. Rani , S. T. Bhanu, B. H. Kumar, S. M. Khizar and V. Bharathi	Advanced Hybrid Energy Storage System with Integrated Battery and Supercapacitor Technology	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10985033	SCOPUS	IEEE	UG
41	N. Vasudha, K. Lalitha , Thahesin Bhanu Sk, PV .Hemanth Reddy, Charan Raju ch, and R. Abhiram	An analysis of India's Power Consumption by Machine learning With Smart Energy meters For Optimal Power Generation	2024 International BIT Conference (BITCON), Dhanbad, India	10.1109/BITCON63716.2024.10985226	SCOPUS	IEEE	UG
42	S. Kauluri, I. Damarla , G. Swathi, P. S. S. R. Kumari, M. Karthik and S. Imran	Implementation of Bi-Directional Converter for V2G and G2V Hybrid EV Chargers	2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Hyderabad, India	10.1109/ICPEEV63032.2024.10932060	SCOPUS	IEEE	UG
43	Vadlamudi Bindu , V Voodi and J Kaliseti	Power quality enhancement utilizing Dstatcom and Dvr with pI controller in distributive generation system	2024 International Conference on Sustainable Power & Energy (ICSPE)	10.1109/ICSPE62629.2024.10924387	SCOPUS	IEEE	UG
44	Bindu Vadlamudi , Bora Rakesh, Nakka Ajay Kumar	A Practical Power Theft Detection System with Simulation and	2024 IEEE Flagship International BIT Conference (BITCON-24)	10.1109/BITCON63716.2024.10985156	SCOPUS	IEEE	UG

		Hardware Implementation					
45	Bindu Vadlamudi, Naveentadikinda Thandava, Krishna Sai pandaraju	Islanding Detection through Intelligent Classifier BI-LSTM Network For micro grid	2024 IEEE Flagship International BIT Conference (BITCON-24)	10.1109/BITCON63716.2024.10985158	SCOPUS	IEEE	-
46	A. Kumaraswamy, M. K. Kar, R. Tiwari, N. Tadikonda, A. Bhattacharya and P. K. Sadhu	PWM-Controlled AC-AC Boost Converter for Domestic Induction Heating	2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST)	-	SCOPUS	IEEE	-
47	K. Kurapati, N. Tadikonda, P. Kolapalli, and S. K. Nagiseti	An IoT Based Smart Eco-Meter with Real-Time Energy Monitoring System	2024 International Conference on Sustainable Power & Energy (ICSPE)	10.1109/ICSPE62629.2024.10924347	SCOPUS	IEEE	UG
48	K. L. S. Mohitha, N. Tadikonda, T. Kiran, P. Sravani, and K. Nikhil	Efficient battery management using cell balancing techniques	2024 International BIT Conference (BITCON)	10.1109/BITCON63716.2024.10985522	SCOPUS	IEEE	UG
49	K. V. Kasimalla, N. K. Tadikonda, S. Kalakonda, R. M. Penumudi, V. K. Pamula, and V. R. Murala	Chilli Harvesting with Robot Operating System 2 and Reinforcement Learning	2024 International BIT Conference (BITCON)	10.1109/BITCON63716.2024.10984602	SCOPUS	IEEE	UG
50	V. V. Nadakuditi, S. Dawn, P. K. Veluguri, N. V. Dara and N. R. Kasu	Comparative Studies of Wind Power Forecasting Using Random Forest and LSTM Models	2025 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSES), Tumakuru, India	10.1109/ICSSES64899.2025.11009935	SCOPUS	IEEE	UG
51	R.S., Lanka, Ram Sai, S.V.R., Lakshmi Kumari, S. V.R., R.K., Desavathu, Revanth Kumar, S., Podiyam, Sravani, K.S., Jonnalagadda, Komal Sai	PV and Battery Driven Electric Vehicle with SEPIC/ZETA Bidirectional Converter	2025 Fourth International Conference on Power, Control and Computing Technologies (ICPC2T)	10.1109/ICPC2T63847.2025.10958752	SCOPUS	IEEE	UG
52	P. Joel Augustine, S. V. R.	Advancements in	2024 IEEE Flagship International	10.1109/BITCON63716.2024.10985158	SCOPUS	IEEE	UG

	Lakshmi Kumari , L. Ram Sai, M. Yaswitha	Highway Navigation System Using Light Based Technology	BIT Conference (BITCON-24), India	24.10985382	S		
53	R. S. Lanka, A. Rama Devi , R. R. Baratam, S. Kondaveeti and J. Kaliseti	Real-Time IoT Driven Energy Monitoring System for Eight Meter Gear Hobbing Machine	2025 Fourth International Conference on Power, Control and Computing Technologies (ICPC2T), Raipur, India	10.1109/ICPC2T63847.2025.10958690	SCOPUS	IEEE	UG
54	Ayisha Firdos Mohammad, Venkatesh P , Chandrika Chaganti, Dhanush Jampana and Jhansi Vulli	Improved Skin Care Diagnosis Using CNN Architecture	International Conference on Advancement in Science, Technology And Management (ICASTM-2025), S. B. Jain Institute of Technology, Management and Research, Nagpur	-	SCOPUS	IEEE	UG
55	H. V. Valluru , S. Neyyala, I. Shaik, S. M. Boggavarapu and R. Shaik	Real-Time Image Processing in Autonomous UAVs for Enhanced Rescue Operations	2025 International Conference on Computational Innovations and Engineering Sustainability (ICCIES), Coimbatore, Tamilnadu, India	10.1109/ICCIES63851.2025.11032347	SCOPUS	IEEE	UG
56	Hari Vamsi Valluru , Deva Harshini Satha, Gopi Boina, Muralidhar Ambaravalli, Mounika Duriseti	Smart power optimization in level shifting: A focus on ultra-efficiency	AIP Conf. Proc. 3237, 040019, 2025	10.1063/5.0247115	SCOPUS	-	UG

Book Chapters (12)

SCOPUS: 12

UG: 8 PG: 2

Sl. No.	Nmae of the Faculty/ Students	Name of the Paper	Name of the Book	DOI	SCOPUS	IEEE/ Springer	UG / PG
1	Yamini D., Rao G.S. , Tejaswi M., Vishal M.G. and Vennela,	Enhancement of Solar Panel Efficiency	In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy	10.1007/978-981-97-6390-0_24	SCOPUS	Springer	UG

	M		Management and Renewable Resources. IEMRE 2023. Lecture Notes in Electrical Engineering, vol. 1239. 2024				
2	Devasahayam B. and Venkateswara Rao B.	Multi-objective Optimal Power Flow Using Krill Herd Algorithm	Recent Advancements in Product Design and Manufacturing Systems, Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd., November 2024	10.1007/978-981-97-6732-8_37	SCOPUS	Springer	PG
3	K. Bhaskara Sandhya, S. N. V. S. K. Chaitanya, B. Venkateswara Rao and R. Ashok Bakkiyara	Optimal Reactive Power Dispatch Using Improved Grey Wolf Algorithm	Recent Advancements in Product Design and Manufacturing Systems, Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd., November 2024	10.1007/978-981-97-6732-8_38	SCOPUS	Springer	PG
4	Bavisetty A., K. Dhananjay Rao, Reddy, K.M.M.K., Pallanti, K. and Leelamadhavi	A Smart EV-Based Micro Mobility System	In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy Management and Renewable Resources. IEMRE 2023. Lecture Notes in Electrical Engineering, vol 1239. Springer, Singapore	10.1007/978-981-97-6390-0_12	SCOPUS	Springer	UG
5	Kondiseti L. and Katragadda S	Artificial Hummingbird Algorithm for Optimal Reactive Power Control for Radial Distribution Feeder Loadability Enhancement	In: Tripathi, A.K., Anand, D., Nagar, A.K. (eds) Proceedings of World Conference on Artificial Intelligence: Advances and Applications. WCAIAA 2024. Algorithms for Intelligent Systems. Springer, Singapore, 2024	10.1007/978-981-97-4496-1_34	SCOPUS	Springer	-
6	Guru Charan Duvvada, A. Rama Devi, S. Vangapati, A.S. Darivemula, A.S. and S.K. Avula	Wireless Night-Vision Camera-Equipped Spy Robot for Surveillance in War Zones (an Unmanned Ground Vehicle)	International Conference on Signal, Machines, Automation, and Algorithm. SIGMAA 2023. Advances in Intelligent Systems and Computing, vol. 1461, Springer, Singapore, 2024	10.1007/978-981-97-6352-8_31	SCOPUS	Springer	UG
7	Jahnvi, O, Venkateswara Rao, B., Dhathri Sree, M.,	A Novel Approach to Design a Multi-featured Smart TV	In: Malik, H., Mishra, S., Sood, Y.R., García Márquez, F.P., Ustun, T.S. (eds) International	10.1007/978-981-97-6352-8_19	SCOPUS	Springer	UG

	Praveen Venkat, P. and Sai Narendra, M.	Using Raspberry PI	Conference on Signal, Machines, Automation, and Algorithm. SIGMAA 2023. Advances in Intelligent Systems and Computing, vol 1461, 2024. Springer, Singapore				
8	Parimi, S.R.K., Dawn, S. , Polavarapu, A., Karri, H. and Yakasiri, R.	Profit Maximization Approaches in Wind-Integrated Systems within Deregulated Environments	In: Panda, G., Basu, M., Siano, P., Affijulla, S. (eds) Proceedings of Third International Symposium on Sustainable Energy and Technological Advancements. ISSETA 2024. Lecture Notes in Electrical Engineering, vol. 1251. Springer, Singapore, 2024	10.1007/978-981-97-6976-6_13	SCOPUS	Springer	UG
9	Mitul Ranjan Chakraborty, Pradip Kumar Saha, Subhojit Dawn and Jayanta Bhusan Basu	A review on optimal placement of unified power flow controller (UPFC) in a fuel cell-wind integrated deregulated power system	Advances in Science, Engineering and Technology, CRC Press, eBook ISBN: 9781003641544, 2025	-	SCOPUS	T&F	-
10	G.S. Rao, A. Ramadevi and P.S.R. Krishna	Smart Mobility and Health Monitoring System: Revolutionizing Wheelchair and Bed	In: Kumar, S., Mary Anita, E.A., Kim, J.H., Nagar, A. (eds) Fifth Congress on Intelligent Systems. CIS 2024. Lecture Notes in Networks and Systems, vol. 1276. Springer, Singapore, 2025	10.1007/978-981-96-2697-7_25	SCOPUS	Springer	UG
11	Valluru, H.V., Harshini, D., Gopi, Muralidhar and Mounika	Advancing Solar Still Efficiency–Pioneering Sustainable Water Solutions	In: Manoharan, S., Tugui, A., Baig, Z. (eds) Proceedings of 4th International Conference on Artificial Intelligence and Smart Energy, ICAIS 2024, Information Systems Engineering and Management, vol. 4. Springer, 2024	10.1007/978-3-031-61475-0_3	SCOPUS	Springer	UG

12	Akhil, S.S., Rao, K.D. , Mansa, T., Tharun, S., Dilip, B.	A Brief Review of Cyber Attacks on Electric Vehicle Battery Management System	In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy Management and Renewable Resources, IEMRE 2023. Lecture Notes in Electrical Engineering, vol. 1239. Springer, 2024	10.1007/978-981-97- 6390-0_8	SCOPUS	Springer	UG
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