

Siddhartha Academy of Higher Education-Deemed to be University

Department of Electrical and Electronics Engineering

Faculty Publications for the Academic Year: 2025-26 (Till 19.02.2026)

International Journals (17)

SCI/SCIE: 8 SCOPUS: 6 ESCI: 3

Q1: 5 Q2: 6 Q3: 4 Q4: 2 UG: 0

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	Madhusudana Rao Ranga, Venkateswara Rao Bathina and Srikumar Kotni	Improved grey wolf optimization for parameter extraction of polycrystalline and mono crystalline solar PV panels using double diode model	Franklin Open	vol. 11, pp. 100273, July 2025. DOI: 10.1016/j.fraope.2025.100273	Scopus	-	Q3	-
2	S Gope, Subhojit Dawn , H A Shuaibu, and T S Ustun	Optimal scheduling of active and reactive power considering distributed renewable power generation in electricity market	Discover Sustainability	vol. 6, no. 1, Sep. 2025. DOI: 10.1007/s43621-025-01209-6	ESCI & Scopus	3.0	Q1	-
3	Subhojit Dawn, B Vadlamudi, MLN Vital, S S Das, K D Rao, A A Mansur and T S Ustun	Enhancing grid stability and sustainability in electrical markets: A review on the synergy of renewable energy and electric vehicles	Energy Exploration & Exploitation	vol. 2025, Oct. 2025. DOI: 10.1177/01445987251383177	SCIE	1.9	Q2	-
4	P. K. Pedapati, K. Murugan, K. D. Rao , A. Hemachander, A. S. Hassan, and T. S. Ustun	Performance analysis of a fault-tolerant multiport converter for hybrid standalone applications	Energy Exploration & Exploitation	vol. 43, no. 5, pp. 1834–1856, Jun. 2025. DOI: 10.1177/01445987251339850	SCIE	1.9	Q2	-
5	S. Madhankumar, Veera Reddy Aduru , V.R. Lenin, V. Suresh Kannan, Akhilesh	Analysis of thermal performance and drying kinetics of indirect solar	Solar Energy	vol. 299, Oct 2025. DOI: 10.1016/j.solener.2025.113767	SCIE	6.6	Q1	-

	Kumar Singh, N.V.S. Swamy Chinamilli	drying under natural and forced convection						
6	Nagesh D, Ramesh Devarapalli, Bathina Venkateswararao , Łukasz Knypiński	Triple-diode model parameter extraction of a mono-crystalline PERC solar photovoltaic module using FDB-based chimp optimization algorithm	Przegląd Elektrotechniczny	vol. 1, no. 10, pp. 58–64, Oct. 2025. DOI: 10.15199/48.2025.10.7	ESCI & Scopus	1	Q4	-
7	E. Kannan, R. Jayaraman , C. Kumar, and G. R. Rajamani	Enhanced energy-efficient load prediction in smart grids using bidirectional LSTM and gated recurrent unit networks	Sustainable Computing: Informatics and Systems	vol. 48, pp. 101230, Dec. 2025. DOI: 10.1016/j.suscom.2025.101230	SCIE	5.7	Q1	-
8	Srinivasarao Thumati, Veera Reddy Aduru , Imran Abdul, Ramakrishna Guttula, Janjhyam Venkata Naga Ramesh and Linginedi Ushasree	Adaptive Frilled Lizard Optimization for Enhancing Distribution Feeder Performance with Renewables and Charging Stations	International Journal of Intelligent Engineering & Systems	vol. 18, no.5, pp. 760-770, Jul. 2025. DOI: 10.22266/ijies2025.0630.53	Scopus	1	Q2	-
9	Anugula Rajamalliah, S.V.K. Naresh, Y. Raghuvamsi, Singamasetty Manmadharao , Kishore Bingi, Anand R	Deep Reinforcement Learning for Power Converter Control: A Comprehensive Review of Applications and Challenges	IEEE Open Journal of Power Electronics	vol. 6, pp. 1769-1802, Oct. 2025. DOI: 10.1109/OJPEL.2025.3619673	ESCI	3.9	Q1	-
10	S. Manmadha Rao , R. J. Satputaley, P. V. R. L. Narasimham , M. Dhananjaya, and B. Ramesh	Mitigation of Voltage Harmonics in Grid powered EV Fast Charging Station using MLI based DVR	International Journal of Circuit Theory and Applications	vol. 2025, pp. 1-13, Oct. 2025. DOI: 10.1002/cta.70193	SCIE	1.6	Q3	-
11	Srilakshmi K, Gummadi SR , Valluri N, Balachandran PK and Sangeetha K	Chimp algorithm based Solar-Hydrogen energy powered UPQC for distribution system	Energy Exploration & Exploitation	vol. 2025, Nov. 2025. DOI: 10.1177/01445987251390554	SCIE	1.9	Q2	-
12	P. Venkatesh , and K.S. Kumar	Optimal reactive power dispatch in electricity market using hybrid whale and sine cosine optimization algorithm	International Journal of Ambient Energy	vol. 46, no. 1, Nov, 2025. 10.1080/01430750.2025.2592991	Scopus	0.442	Q2	-
13	Subhojit Dawn , Shreya Shree Das, Md.Minarul Islam and Taha Selim Ustun	Optimizing Wind Power Integration: Increasing Profitability and Market Efficiency through Machine Learning Based	Energy Exploration & Exploitation	Vol. 2026, Jan. 2026. DOI: 10.1177/01445987251414449	SCIE	1.9	Q2	-

		Wind Speed Forecasting in Japan's Electricity Grid						
14	Lakshmi, K. Vijaya; Manimozhi, M and Kumari, J. Vimala.	Dynamic Ball Balancing Using Deep Deterministic Policy Gradient (DDPG)-Controlled Robotic Arm for Precision Automation	International Journal of Robotics & Control Systems	Vol. 5, No. 3, pp. 1661. Jul 2025. DOI: 10.31763/ijrcs.v5i3.1892	Scopus	4.2	Q3	-
15	Yuvapriya T, Vimala Kumari Jonnalagadda, Vijaya Lakshmi Korupu and Vinodh Kumar Elumalai	Enhanced trajectory tracking and robustness in magnetic levitation via takagi-sugeno fuzzy control: experimental approach	Scientific Reports	Vol. 16, pp. 685, Jan. 2026. DOI: 10.1038/s41598-025-25356-y	SCIE	3.9	Q1	-
16	S. R. Bondalapati et al.	Smart vehicle cybersecurity: Implementing an autonomous and adaptive intrusion response system	ASEAN Engineering Journal	vol. 15, no. 4, pp. 221–228, 2025, doi: 10.11113/aej.V15.24631	Scopus	0.176	Q4	-
17	Venkataiah Vaadaala, Kumarlakalva Hazee Shabbeer Basha, R. Anand Babu, Khasim Vali Dudekula, Bejjam Surendranadh Benarji, and Swarupa Rani Bondalapati	Cloud and IoT-Driven Smart Irrigation: A Modern Approach to Water Management in Agriculture	IAENG International Journal of Computer Science	vol. 53, no. 1, pp. 305-322, Jan. 2026	Scopus	0.6	Q3	-

International Conferences (11)

SCOPUS: 11 IEEE Conference: 8

UG: 10 PG: 0

Sl. No.	Nmae of the Faculty/ Students	Name of the Paper	Name of the Conference	DOI	SCOPUS	IEEE/ Others	UG/ PG
1	P. Sandeep, G. Srinivasarao, N. R. K. Darbar and P. Arjun	Simulation-based Study of Wireless EV Charging using Inductive Coupling	2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, October 2025	10.1109/ICESC65114.2025.11212501	Yes	IEEE	UG
2	N. Upendra, R. C. Vankina, I. P. Sahay, B. Kiranmayi and B. Manohar	Adaptive Plug-and-Play DG Systems with IoT Driven THD Monitoring and	2025 7th International Conference on Inventive Material Science and Applications (ICIMA), Namakkal, India, July 2025	10.1109/ICIMA64861.2025.11074060	Yes	IEEE	UG

		Reduction					
3	G. Vignesh, B. Venkateswara Rao , G. Swathi, and K. Sri vidya	Impact of Contingencies and SVC Placement on Power Flow in a 5 Bus System	2nd International Conference on Smart and Sustainable Energy Systems (ICSSES 2025), India, Mar. 2025	10.1088/1755-1315/1529/1/012033	Yes	Others	UG
4	N. D, R. Devarapalli, V. R. Bathina and Ł. Knypiński	FDB-Based Chimp Optimization Algorithm for Parameter Extraction of MonoCrystalline PERC Solar Photovoltaic Modules	2025 Progress in Applied Electrical Engineering (PAEE), Koscielisko, Poland, Sept. 2025	10.1109/PAEE68231.2025.11155918	Yes	IEEE	-
5	Ramya, M. R. S. R. S., Rao, R. M. , Rao, B. V., Moulika, Y., Kamakshi, R., & Devaki, M.	Enhanced Parameter Extraction for Double-Diode Modeling of Solar PV Cells Using Improved Grey Wolf Optimization	2nd International Conference on Smart and Sustainable Energy Systems (ICSSES 2025), India, Mar. 2025	10.1088/1755-1315/1529/1/012017	Yes	Others	UG
6	Anupoju, Kowshik, Reddy Aduru, Veera , Raja Kancharla, Ravi, Sundar, Ravi Devarapalli and Parasa, Snigdha	Design and analysis of Air-Gap Faults in Switched Reluctance Motor	2nd International Conference on Smart and Sustainable Energy Systems (ICSSES 2025), India, Mar. 2025	10.1088/1755-1315/1529/1/012019	Yes	Others	UG
7	V. Ravindranadh Chowdary , P. Pavan Aditya, A. Venkata Sai Deepika, C. Pavani, G. Sivanarayana and V. Prasanthi	Design of Solar PPPT System with Fuzzy-Logic based Inverter Control for Grid Connected Loads	2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, Sep. 2025	-	Yes	IEEE	UG
8	M. R. Ranga , V. Nagarjuna, B. J. Vesli, K. B. Kumar and M. Phaneendra	Solar Power Forecasting System Using Combined CNN-LSTM and Ensemble Neural Networks	2025 10th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, Oct. 2025	10.1109/ICCES67310.2025.11336391	Yes	IEEE	UG

9	U. Meenakshi, V. H. Vamsi , T. G. N. S. Varshitha, T. J. N. Ganesh and P. S. Krishna, ","	Electrical Load Monitoring with LoRa and PZEM for Sustainability	2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, Sept. 2025	10.1109/ICESC65114.2025.11212595	Yes	IEEE	UG
10	H. Sanaboda, V. R. Aduru , V. S. S. Chandolu, B. B. Appikatla and R. Vavilapalli	Smart Waste Monitoring Enhancing Urban Cleanliness with Real-Time Alerts	2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESC), Coimbatore, India, Sept. 2025	10.1109/ICESC65114.2025.11212600	Yes	IEEE	UG
11	S. R. Sattenapalli, S. Dawn , M. Sanivada, K. D. Kumar and K. Bhavani	Study of Thermal and Thermal-Wind Systems in a Regulated Power System with Variable Load	2025 4th International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, Oct. 2025	10.1109/ICACRS67045.2025.11324275	Yes	IEEE	UG

Book Chapters (5)

SCOPUS: 5

UG: 5 PG: 0

Sl. No.	Nmae of the Faculty/ Students	Name of the Paper	Name of the Book	DOI	SCOPUS	IEEE/ Springer	UG / PG
1	Nallabothula Upendra, Ravindranadh Chowdary Vankina , Gali Kamalakar, Petla Vamsi Krishna and Gannavaram Srinivas	Integrated Smart Energy Management for Sustainable Grid Optimization and Predictive Maintenance	IOP Conference Series: Earth and Environmental Science, vol. 1529, no. 1, pp. 012006, August 2025	10.1088/1755-1315/1529/1/012006	Yes	IOP	UG
2	M. R. S. R. S. Ramya, R. M. Rao, B. V. Rao , Y. Moulika, R. Kamakshi and M. Devaki	Enhanced Parameter Extraction for Double-Diode Modeling of Solar PV Cells Using	IOP Conference Series: Earth and Environmental Science, vol. 1529, no. 1, pp. 012017, August 2025	10.1088/1755-1315/1529/1/012017	Yes	IOP	UG

		Improved Grey Wolf Optimization					
3	Nallabothula Upendra, Ravindranadh Chowdary Vankina , Inti Prashitha Sahay, Bale Kiraninayi and Battula Manohar	Effective Power Sharing and Improved Droop Control in a Hybrid Grid with V2G/G2V	IOP Conference Series: Earth and Environmental Science, vol. 1529, no. 1, pp. 012007, August 2025	10.1088/1755-1315/1529/1/012007	Yes	IOP	UG
4	I. Damarla , V. Pradyumna, J. Ramyasri, R. Ajaybabu, and T. Kiran	Design and Performance Analysis of Fuel Cell Based Electric Vehicle with Ultra Boost Converter	In: Gundebommu, S.L., Chintala, L.R., Kotha, S.R. (eds) Communications in Computer and Information Science, vol. 2613, Springer, August 2025	10.1007/978-3-032-00983-8_13	Yes	Springer	UG
5	Rupanjani Venkata Kishore Bobbili, S.N.V.S.K Chaitanya , Prudhvi Narayana Botcha, Naga Venkatesh Dara, Sridevi Dasam and Sundar Samuel Miriyala	Simulation of a solar power generation system based on a boost converter using fuzzy logic controller-based mppt	IOP Conference Series: Earth and Environmental Science, vol. 1529, no. 1, August 2025	10.1088/1755-1315/1529/1/012013	Yes	Springer	UG