

### International Journals

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS/ UGC	Q-Index	Citation Details	UG/PG
1	T. Nagadurga, <b>P.V.R.L. Narasimham</b> , V. S. Vakula	Global Maximum Power Point Tracking of Solar Photovoltaic Strings under Partial Shading Conditions Using Cat Swarm Optimization Technique	Sustainability, (MDPI), vol. 13, no. 19, 2021	0.3390/su1319 11106	SCIE	Q1	1	-
2	<b>B. Venkateswara Rao</b> , R. Devarapalli, H. Malik, S. K. Bali, F. P. G. Márquez, T. Chiranjeevi	Wind integrated power system to reduce emission: An application of Bat algorithm	Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 1–9, 2021	10.3233/JIFS- 189770	SCIE	Q2	6	-
3	R. Devarapalli, <b>B. Venkateswara Rao</b> , B. Dey, K. Vinod Kumar, H. Malik, F. P. G. Márquez	An approach to solve OPF problems using novel hybrid whale and sine cosine optimization algorithm	Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 957-967, pp. 1–11, 2021	10.3233/JIFS- 189763	SCIE	Q2	9	-
4	<b>Subhojit Dawn</b> , Sadhan Gope, Shreya Shree Das	Social Welfare Maximization of Competitive Congested Power Market Considering Wind Farm and Pumped Hydroelectric Storage System	Electronics, (MDPI), vol. 10, no. 21, 2021	10.3390/electro nics10212611	SCIE	Q2	2	-
5	<b>Subhojit Dawn</b> , Shreya Shree Das, Sadhan Gope	Global Power and Energy Scenario During COVID-19 Pandemic: Lessons from Lockdown	International Journal of Electrical Power and Energy	10.1016/j.ijepe s.2021.107757	SCIE	Q1	2	-

			Systems, (Elsevier), vol. 137, 2022					
6	<b>Ramesh Jayaraman, Suneel Tummappudi,</b> R.B.R. Prakash, T. Vijay Muni	Analysis of sliding mode controller based DSTATCOM for power quality improvement in distribution power system	Materials Today: Proceedings, (Elsevier), Preprint, 2021	10.1016/j.matpr.2021.07.360	SCOPUS	-	1	-
7	Syed Abdul Mujeer, <b>Ramesh Jayaraman,</b> Puchanuthala Siva Krishna, SivaprasadKollati, M Raja Nayak	FOPID and state space analysis based PSS for damping of oscillation in multi machine system	Materials Today: Proceedings, (Elsevier), Preprint, 2021	10.1016/j.matpr.2021.06.393	SCOPUS	-	3	-
8	Sadhan Gope, <b>Subhojit Dawn,</b> Shreya Shree Das, Hemakumar Reddy Galiveeti	Wind farm integrated restructured electricity market analysis using Ant Lion optimizer algorithm	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (T&F), 2021	10.1080/15567036.2021.1953637	SCIE	Q2	-	-
9	T. Nagadurga, <b>P. V. R. L. Narasimham,</b> V. S. Vakula, Ramesh Devarapalli	Gray Wolf optimization based optimal grid connected solar photovoltaic system with enhanced power quality features	Concurrency and Computation Practice and Experience, vol. 34, no. 5, 2021	10.1002/cpe.6696	SCIE	Q3	1	-
10	MuppidiRambabu, GundavarapuVenkataNagesh Kumar, <b>BathinaVenkateswara Rao,</b> Bali Sravan Kumar	Optimal power flow solution of an integrated power system using elephant herd optimization algorithm incorporating stochastic wind and solar power	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (T&F), 2021	10.1080/15567036.2021.1972059	SCIE	Q2	1	-
11	Nitesh Kumar	An Economic Risk Analysis	Sustainability,	10.3390/su132	SCIE	Q1	3	-

	Singh, Chaitali Koley, Sadhan Gope, <b>Subhojit Dawn</b> , TahaSelimUstun	in Wind and Pumped Hydro Energy Storage Integrated Power System Using Meta-Heuristic Algorithm	(MDPI), vol. 13, 2021	413542				
12	Arup Das, <b>Subhojit Dawn</b> , Sadhan Gope, TahaSelimUstun	A Risk Curtailment Strategy for Solar PV-Battery Integrated Competitive Power System	Electronics, (MDPI), vol. 11, no. 8, 2022	10.3390/electronics11081251	SCIE	Q2	1	-
13	Shreya Shree Das, Arup Das, <b>Subhojit Dawn</b> , Sadhan Gope, TahaSelimUstun	A Joint Scheduling Strategy for Wind and Solar Photovoltaic Systems to Grasp Imbalance Cost in Competitive Market	Sustainability, (MDPI), vol. 14, no. 9, 2021	10.3390/su14095005	SCIE	Q1	1	-
14	S. V. D. Anil Kumar, M. Seshu, <b>N. Vamsi Krishna</b>	A Reduced Rating of Isolated-VSIs DSTATCOM for PQ Enhancement Using MRE-PWM Technique	ARNP Journal of Engineering and Applied Sciences, vol. 16, no. 21, 2021	-	SCOPUS	Q3	-	-
15	<b>K. Dhananjay Rao</b> , S. Ghosh and R. Keshri	A Resilient Temperature Suppressed Optimal Charging Strategy for Ultracapacitors to Attain Desired State of Charge	IEEE Transactions on Energy Conversion, Early Access, 2022	10.1109/TEC.2022.3144478	SCI	Q1	-	-
16	D. Srilatha, RVS Lakshmi Kumari, <b>S.V.R. Lakshmi Kumari</b>	Usage-Based Loss Allocation to Generators in Single Area Power System	Design Engineering (Toronto), vol. 7, pp. 9562- 9572, 2021	-	SCOPUS	Q4	-	-
17	N. Yalla, V. K. Bussa, A. V. J. S. Praneeth, P. Agarwal, <b>A. N. Babu</b> , Y. S. Rao	Reduced Switching State Five-Level Rectifier	IEEE Transactions on Industry Applications, vol. 58, no. 1, pp. 612-621,	10.1109/TIA.2021.3120241	SCI	Q1	1	-

			2022					
18	Yadlapalli, Ravindranath Tagore, AnuradhaKotapati, <b>Srinivasa Rao Balusu</b>	Fuzzy logic control based high step up converter for electric vehicle applications	International Journal of Innovative Computing and Applications, vol. 13, no. 1, pp. 41-56, 2022	10.1504/IJICA. 2022.121388	SCOPUS	Q4	-	-
19	Akanksha Mishra, Nagesh Kumar GundavarapuVenka ta, Sravana Kumar Bali, <b>Venkateswara Rao Bathina</b> , Uma MaheswariRamisett y, Srikanth Gollapudi, Hady Habib Fayek, Eugen Rusu	Strategic Placement of Solar Power Plant and Interline Power Flow Controllers for Prevention of Blackouts	Inventions (MDPI), vol. 7, no. 30, 2022	10.3390/invent ions7010030	SCOPUS	Q2	-	-
20	Shreya Shree Das, <b>Subhojit Dawn</b> , Sadhan Gope, Hassan Haes Alhelou	Social welfare improvement using market clearing mechanism of a wind farm- CAES hybrid congested transmission system	IET Renewable Power Generation, Preprint, 2022	10.1049/rpg2.1 2519	SCIE	Q2	-	-
21	Thamizharasan S., <b>Paruchuri Chandra Babu Naidu</b> , Vasuja Devi M., Lourdes Emperatriz Paredes Castelo, KovendanAkp, Swaminathan J N	Design of Smart Spectacle in 5G-IoT Environment to Detect and Prevent CORONA Virus Variants	Springer Smart Innovation, Systems and Technologies (SIST series), vol. 312, 2022	-	SCOPUS	Q3	-	-
22	Sumeet Gupta, <b>Paruchuri</b>	Analysis of various Toxic gas Levels using 5G ML-IoT	Springer Smart Innovation,	-	SCOPUS	Q3	-	-

	<b>Chandra BabuNaidu,</b> VasudevanKuppan, M. Alagumeenaakshi, R. Niruban, J.N. Swaminathan	for Air Quality Monitoring and Forecasting	Systems and Technologies (SIST series)					
23	Nitesh Kumar Singh, Sadhan Gope, Chaitali Koley, <b>Subhojit Dawn</b> , Hassan Haes Alhelou	Optimal Bidding Strategy for Social Welfare Maximization in Wind Farm Integrated Deregulated Power System using Artificial Gorilla Troops Optimizer Algorithm	IEEE Access, vol. 10, 2022	10.1109/ACCE SS.2022.31865 19	SCIE	Q1	-	-

### International Conferences

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCI/SCIE/ SCOPUS/WOS / UGC	Publishers	Citation Details	UG/PG
1	Para VidyaSagar, <b>M.S. Krishna Rayalu</b>	State Space Approach of Automatic Generation Control of Two-Area Multi-Source Power systems	International Conference on Computational Intelligence & Sustainable Technologies (ICoCIST- 2021), NIT Silchar, October 2021	10.1007/978- 981-16- 6893-7_41	-	Springer	-	PG
2	Para VidyaSagar, <b>M.S. Krishna Rayalu</b>	State Space Modelling for 2 Area Multiple Source AGC using PI, PID, PI-PD controllers	Third International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021), Coimbatore, October 2021	10.1007/978- 981-19- 1111-8_70	SCOPUS	Springer	-	PG
3	T. Papi Naidu, <b>Venkateswara rao B,</b> G.Balasubrama nian,	Whale optimization algorithm based optimal power flow: In view of power losses, voltage stability and emission	3rd International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT 2021), University of Malaya (UM), Kuala Lumpur, Malaysia and Vellore Institute of Technology (VIT), Vellore, India, held from 27th to 29th November 2021	10.1109/i- PACT52855. 2021.969687 9	SCOPUS	IEEE	-	-
4	M. J. Raj, S. Gadde and <b>Ramesh Jayaraman</b>	Implementation of Biometric Access Control Using Fingerprint for Safety	2021 IEEE 2nd International Conference on Smart Electronics and Communication	10.1109/ICO SEC51865.2 021.9591718	SCOPUS	IEEE	1	UG

		and Security System of Electric Vehicle	(ICOSEC), Oct 7-9 2021, Kongunadu College of Engineering and Technology, Trichy, Tamilnadu, 2021					
5	S. L. Rikwith, D. Saiteja, <b>Ramesh Jayaraman</b>	Enhancement of Electronic Voting Machine Performance Using Fingerprint and Face Recognition	2021 IEEE 2nd International Conference on Smart Electronics and Communication (ICOSEC), Oct 7-9 2021, Kongunadu College of Engineering and Technology, Trichy, Tamilnadu, 2021	10.1109/ICOSEC51865.2021.9591895	SCOPUS	IEEE	1	UG
6	<b>S. N. V. S. K. Chaitanya, B. V. Rao, R. A. Bakkiyaraj</b>	Solution of an Optimal Reactive Power Dispatch problem: An application of Modified Ant Lion Optimizer	2021 31st Australasian Universities Power Engineering Conference (AUPEC), Curtin University, Perth, Australia, September 26-30, 2021.	10.1109/AUPEC52110.2021.9597756	SCOPUS	IEEE	-	-
7	I. Meghana and <b>Paruchuri Chandra Babu Naidu</b>	Simulation of Slip Compensation for Induction Motor Drive Using MATLAB	3rd International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT 2021), University of Malaya (UM), Kuala Lumpur, Malaysia and Vellore Institute of Technology (VIT), Vellore, India, 27th to 29th November 2021.	10.1109/i-PACT52855.2021.9696878	SCOPUS	IEEE	-	UG
8	<b>P. Sowmith, N. Goutham Kumar, B.</b>	Multi-objective Hydro-Thermal-Wind Scheduling Applying	International Conference on Computational Intelligence and	10.1007/978-981-16-6893-7_13	-	Springer	-	-

	Varun Kumar	PSO	Sustainable Technologies, October 2021, NIT Silchar, 2021					
9	ManasaLaksmi Royyuru, <b>GummadiSrinivasa Rao, Venkateswara rao B</b>	Spontaneous Water Impurity Detection System using Arduino	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	SCOPUS	Springer	-	UG
10	O. Satya, <b>GummadiSrinivasa Rao, Venkateswara rao B</b>	Firefly Algorithm established Economic Load Dispatch with loss coefficients	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	SCOPUS	Springer	-	UG
11	V Pavan Kumar, <b>Venkateswara Rao B, G</b> Jagadeesh Harsha, MD John Saida, A.B.V Mohana Rao	Arduino-based Unmanned Vehicle to provide assistance under Emergency conditions	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	SCOPUS	Springer	-	UG
12	<b>P. Sowmith, B. Venkateswara Rao</b>	PSO based short term hydro thermal and wind plant scheduling: in view of emission factor	International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDMS-2021), NIT Rourkela, 30-31 December, 2021	-	SCOPUS	Springer	-	-
13	T. Sai Sowmya, <b>Subhojit</b>	Wireless Solar Power Transmission System	2nd International Conference on Innovation In Energy Management	-	SCOPUS	IEEE	-	UG



	<b>Dawn, Ch.</b> Sunil Kumar, Sk. MounibBaig, R. Varaprasad		And Renewable Resources (IEMRE - 2022), 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022					
14	DoddigallaAnu sha, <b>Subhojit Dawn,</b> GantaVimal Sharon, MandepudiBha rgav, PaladiVenkata Varshini, Puli Mani Veera Sai	Gesture Controlled Home Automation Using Python OpenCV	2nd International Conference on Innovation In Energy Management And Renewable Resources (IEMRE - 2022), 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022	-	SCOPUS	IEEE	-	UG
15	R Naga Ajaybabu, <b>K Dhananjay Rao,</b> B Krishna Kanth, K Madhuchandan , K Jayanth	Lithium Iron Phosphate Battery and Ultracapacitor based Hybrid Storage System to Enhance Overall System Performance of Electric Vehicle	2nd International Conference on Innovation In Energy Management And Renewable Resources (IEMRE - 2022), 25th to 27th February, 2022, Institute of Engineering & Management, Kolkata, 2022	-	SCOPUS	IEEE	-	UG
16	B. Mahesh Babu, <b>V. Hari Vamsi,</b> T Srinivasa Rao	Current Harmonic Mitigation with optimized MLI-SAPF on the Distribution Side Systems	1st Conferene on Power Electronic & Sustainable Development, NIT Jamshedpur, April 23-24 2022	-	SCOPUS	-	-	-
17	<b>GiridharBala krishna R,</b> VenuSonti,	Switched Capacitor Based High-Gain DC- DC Converter for Low-	IEEE Second International Conference on Power, Control and Computing	10.1109/ICP C2T53885.2 022.9777052	SCOPUS	IEEE	-	-

	<b>Sachin Jain, P V R L Narasimham</b>	Voltage Power Generation Application	Technologies, (ICPC <sup>2</sup> T – 2022), National Institute of Technology Raipur, Chhattisgarh, March 1–3 2022					
18	<b>M L N Vital, VenuSonti, P V R L Narasimham, Sachin Jain</b>	Switched Capacitor Based Transformerless Five-Level Inverter for the Minimization of Leakage Current in PV Systems	IEEE Second International Conference on Power, Control and Computing Technologies, (ICPC <sup>2</sup> T – 2022), National Institute of Technology Raipur, Chhattisgarh, March 1–3 2022	10.1109/ICP C2T53885.2 022.9776728	SCOPUS	IEEE	-	-
19	<b>V. Hari Vamsi,G Srinivasa Rao, B. Mahesh Babu, G. Kishore Babu, A. Amarendra</b>	Multi Quadrant Operation of BLDC Motor-driven Electric Hybrid Vehicle	4th International Conference on energy, Power and Environment (ICEPE-2022), NIT Meghalaya, during 29th April -01st May, 2022	10.1109/ICE PE55035.202 2.9798152	SCOPUS	IEEE	-	-
20	<b>Dr.Gummadi Srinivasa Rao, T SrinivasaRao, Dr.B.MaheshB abu</b>	A Virtual Power Plant Engineering With Distributed Energy Resources: A Review	International Conference on Power electronics and Sustainable Development System (ICPESD-2022), NIT Jamshedpur, 23-24, April 2022	-	SCOPUS	-	-	-
21	<b>G. Sanjay Kumar, S. N. V. S. K. Chaitanya, B. Venkateswara Rao, R. Ashok Bakkiyaraj</b>	Optimal Reactive Power Dispatch solution accomplished with incorporation of Solar power using Harris Hawks Optimizer Algorithm	4th International Conference on Energy, Power and Environment (ICEPE-2022), National Institute of Technology Meghalaya, 29 April-01 May, 2022	10.1109/ICE PE55035.202 2.9798031	SCOPUS	IEEE	-	PG
22	<b>N. Keerthi, A. Raghuram, Ramesh</b>	Interfacing of Online and Offline Voting System with an E-	2022 6th International Conference on Devices, Circuits and Systems	10.1109/ICD CS54290.202 2.9780681	SCOPUS	IEEE	-	UG

	<b>Jayaraman</b>	Voting Website	(ICDCS), 2022					
23	T. Gopi Krishna, <b>Paruchuri Chandra Babu Naidu</b> , Kumar Cherukupalli, <b>A. Veera Reddy</b> , M. Sravani	Smart Energy Grid Using IoT	2022 Trends in Electrical, Electronics, and Computer Engineering Conference (TEECCON), REVA UNIVERSITY, Bengaluru, India, 26th and 27th May, 2022	-	SCOPUS	IEEE	-	UG
24	DoddigallaAnusha, <b>Subhojit Dawn</b> , MandepudiBharadvaj, GantaVimal Sharon, T. Sai Sowmya, Ch. Sunil Kumar	Economic Enhancement of Wind Farm Integration in Deregulated Power System	7th Student's Conference on Engineering and Systems (SCES-2022), MNNIT Allahabad, India, 1-3 July 2022	-	SCOPUS	IEEE	-	UG
25	Ch. Sunil Kumar, T. Sai Sowmya, Sk. MounibBaig, DoddigallaAnusha, <b>Subhojit Dawn</b>	Impact Assessment of Solar PV in Deregulated Power Market	7th Student's Conference on Engineering and Systems (SCES-2022), MNNIT Allahabad, India, 1-3 July 2022	-	SCOPUS	IEEE	-	UG

### Book Chapters

Sl. No.	Author Name	Title of the Paper	Publication Details	DOI	SCOPUS/ WOS/ UGC	Publishers	Citation Details	UG/PG
1	V. Santhoshi Raju, <b>P. Venkatesh</b>	Optimal LFC regulator for frequency regulation in multi area power system	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol. 875. Springer, Singapore, 2022	10.1007/978- 981-19- 0284-0_27	-	Springer	-	PG
2	TungalaJoshira m, <b>S.V.R. Lakshmi Kumari</b>	Power Quality Enhancement and Low Voltage Ride through Capability in Hybird Grid Interconnected System by Using D- FACTS	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture Notes in Electrical Engineering, vol. 875. Springer, Singapore, 2022	10.1007/978- 981-19- 0284-0	-	Springer	-	PG
3	Aravind, T., <b>Rao, B.S</b>	Optimal Power Flow Using Firefly Algorithm with Solar Power	Singh, P.K., Kolekar, M.H., Tanwar, S., Wierzchoń, S.T., Bhatnagar, R.K. (eds) Emerging Technologies for Computing, Communication and Smart Cities. Lecture	10.1007/978- 981-19- 0284-0_28	-	Springer	-	PG

			Notes in Electrical Engineering, vol 875. Springer, Singapore, 2022					
4	Papi Naidu, T., <b>Venkateswara rao, B.</b> , Balasubramani an, G	Whale Optimization Algorithm Based Optimal Power Flow to Reduce Generation Cost	Nayak, J., Behera, H., Naik, B., Vimal, S., Pelusi, D. (eds) Computational Intelligence in Data Mining. Smart Innovation, Systems and Technologies, vol. 281. Springer, Singapore, 2022	10.1007/978- 981-16- 9447-9_20	SCOPUS	Springer	-	UG
5	Varma, G.K., <b>Rao, B.V.</b>	Multi-objective Optimal Power Flow Using Whale Optimization Algorithm Consists of Static VAR Compensator	Sengodan, T., Murugappan, M., Misra, S. (eds) Advances in Electrical and Computer Technologies. Lecture Notes in Electrical Engineering, vol. 881. Springer, Singapore, 2022	10.1007/978- 981-19- 1111-8_66	SCOPUS	Springer	-	UG
6	<b>K Dhananjay Rao</b> , Lakshya Rani Inteti, PreethamPenm etsa and Chaitanya Ghanta	Design of Lithium-Ion Battery Thermal Management System for Vehicular Applications	EPREC-2022, Lecture Notes in Electrical Engineering, NIT, Jamshedpur, 2022	-	SCOPUS	Springer	-	UG