VELAMMAL COLLEGE OF ENGINEERING & TECHNOLOGY, MADURAI – 625 009.

(Autonomous)
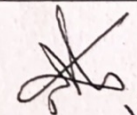
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

JOURNALS FOR CITATION 2022 & 2023

Sl. No.	Name of the faculty	Paper title	Journal Name	Indexed	Impact Factor	Recent Trends	Scope for future research
1.	Dr.A.Shunmugalatha	The palm tree optimization: Algorithm and applications	*Journal of Intelligent and Fuzzy Systems,* 2023, 45(1), pp. 1357–1385	Scopus indexed	1.737	The proposed algorithm with better search ability over different classes of benchmark functions and real-world applications	To develop Deep-Learning-Based Automated Palm Tree Counting and Geolocation in Large Farms
2.	Dr.A.Shunmugalatha	Design and Implementation of a New Fast and Efficient MPPT Controller under Different Solar Irradiance Conditions	*International Journal of Photoenergy, 2022*	Scopus indexed	2.535	The proposed system has excellent dynamic performance, has no steady-state oscillation, and can track the MPP effectively	To enhance and improve the effectiveness of MPPT controller is validated by various types of hardware implementation.
3.	Dr.R.Narmatha Banu	Design and Analysis of LSANN-IPOMPPT with Zeta Converter in PV Systems for Fluctuating Atmospheric Circumstances	*Arabian Journal for Science and Engineering*, 2023, 48(5), pp. 6053–6065	Scopus indexed	2.807	Application of LSANN in renewable energy systems	To produce more efficient output power range from PV System
4.	Dr.R.Narmatha Banu	Feature-Reduced Stability Analysis of Islanded Photovoltaic Microgrid Inverters	*International Journal of Photoenergy, 2022*	Scopus indexed	2.535	exploring soft computing methods for feature-reduced stability analysis of parallel inverters	• Validating dimensionality reduction in the stability analysis of

							• parallel inverters. • Introducing the dynamics of photovoltaic characteristics in the microgrids
5.	Dr.N.Karpagam	Cost analysis of energy efficient solar water pumping system	*Indian Journal of Engineering, 2022, 19(51), pp. 133–143*	Scopus indexed	0.24	MPPT based Solar based water pumping is the exploring technology	AI based technologies can be used for maximum power point tracking in solar panel
6.	Dr.S.Dhanalakshmi	Design and Control of Modified Super Lift Luo Converter for Electric Vehicle Applications	*Electric Power Components and Systems*, Apr 2023, 51(14), pp. 1474–1485	Scopus indexed	1.276	New converters can be compared and better one can be suggested	Inclusion of Soft computing techniques can be done.
7.	Dr.S.Senthilrani	A mathematical model to forecast solar PV performance	*Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,* Series A, 2023, 46(5), pp. 431–440	Scopus indexed	1.34	Cost optimization of Solar PV system	Machine learning based performance prediction
8.	Dr.S.Senthilrani	An Overview of Various Computer Vision-based Grading System for Various Agricultural Products	*Journal of Horticultural Science and Biotechnology*, 2022, 97(2), pp. 137–159	Scopus indexed	1.91	AI enabled food quality prediction	Non destructive type food grading system

9.	Dr.B.Kiruthiga	Implementation and Classification of Breast Cancer Histopathological Image Processing using Support Vector Machine	International Conference on Computer Communication and Informatics, ICCCI 2023	Scopus indexed		autonomous prediction and diagnosis of Breast Cancer	To evaluate using performance improvisation and predictions
10.	Dr.S.Chellam	Blockchain-enabled electric vehicle charging	Blockchain-Based Systems for the Modern Energy Grid, 2022, pp. 189–201 (Book chapter)	Scopus indexed	-	EV charging with Block chain technology	EV charging with Block chain can be applied into research work
11.	Dr.S.Chellam	Congestion cost estimation using adaptive red fox algorithm in restructured electricity markets	Journal of Intelligent and Fuzzy Systems, 2023, 45(5), pp. 8465–8477	Scopus indexed	1.737	Red fox algorithm provides less computation time as compared with other optimization methods	Cost calculation in distribution line can be optimized by applying this algorithm

19/12/23

HoD/EEE