

Dr.Sumithira,T.R.,

Research Papers in Journals:						
S. No	Author(s)	Title of the Article	Name of the Journal	Volume, Issue &	Page No./ Year of Publication	ISSN No.
1	Sumithira,T.R., Nirmalkumar, A. and Ramesh Kumar, R	An adaptive neuro-fuzzy inference system (ANFIS) based Prediction of Solar Radiation	Journal of Applied. Sciences Research	Vol.8, No. 1	pp.346-351, 2012	ISSN: 1816157X, 1819544X
2	Sumithira, T.R. and Nirmalkumar, A.	Prediction of monthly global solar radiation using adaptive neuro fuzzy inference system technique over the state of Tamilnadu (India) : a comparative study	Applied Solar Energy	Vol.48, No. 2	pp 140-145, 2012	ISSN: 0003-701X (p-version) ISSN: 1934-9424 (e-version)
3	Sumithira, T.R. and Nirmalkumar, A.	Analysis on the design and development of off-grid solar photovoltaic uninterruptible power system using matrix converter topology : An experimental study"	International Review of Electrical Engineering	Vol. 8, No.1,	pp 26-32, 2013.	ISSN: 1827-6660 e-ISSN: 1827-6679
4	Sumithira, T.R. and Nirmalkumar, A.	Elimination of Harmonics in Multilevel inverters connected to solar photovoltaic system using ANFIS : An experimental case study	Journal of Applied Research Technology	Vol. 11	, pp 124 - 132, 2013.	ISSN: 1665-6423
5	Sumithira, T.R. and Nirmalkumar, A.	MATRIX-Z-converter with maximum voltage transfer ratio: An experimental study	U.P.B Scientific Bulletin, Series C	Vol 75, No. 1	2013	ISSN: 22863559, 1454234X
6	Sumithira, T.R. and Nirmalkumar, A.	An Experimental investigation on Off-Grid Solar PhotoVoltaic Power System using Matrix Converter	Journal of Scientific and Industrial Research	Vol 73, No. 2,	pp 124-128, 2014	ISSN:0975-1084 (Online); 0022-4456 (Print)
7	Sumithira, T.R. and Nirmalkumar, A.	Performance evaluation of standalone solar photovoltaic system ANFIS predicted solar radiation : An experimental case study	Journal of Intelligent and Fuzzy systems	Vol. 26, No.1,	pp 203-210, 2014	ISSN (P)1064-1246 (online) 1875-8967
8	S.S.Tharani Devi and Sumithira, T.R	FPGA Based Efficient Control Strategy For Multi-Mode Power Flow Management In	International Journal of Scientific & Engineering	Volume 5, Issue 5	pp 408-412,2014	ISSN: 2229-5518

		<i>Solar PV System</i>	<i>Research</i>			
9	<i>M.Premkumar, T.R.Sumithira, D.Sathishkumar, A.Mohamed Ibrahim,</i>	<i>Gesture and Stability Control of A Quadcopter Using 3-Axis Accelerometer</i>	<i>International Journal on Recent Technologies in Mechanical and Electrical Engineering.</i>	<i>Volume 2 Issue 10</i>	2015	ISSN: 2349-7947
10	<i>Sumithira T.R</i>	<i>ANFIS based Speed Control Of Induction Motor in Solar PV enabled Z-Source Multilevel Inverter</i>	<i>Journal of Recent Research in Engineering and Technology</i>	<i>2(7), 2015, pp 8-16</i>	2015	ISSN (Online): 2349 –2252, ISSN (Print):2349 –2260.
11	<i>Sumithira T.R</i>	<i>ANFIS-based Optimum THD prediction for Solar PV enabled Z-source multilevel inverters</i>	<i>Journal of Recent Research in Engineering and Technology</i>	<i>2(9), 2015, pp 41-49</i>	2015	ISSN (O): 2349 –2252, ISSN (P):2349 – 2260.
12	<i>Sumithira T.R</i>	<i>Performance evaluation on the battery storage system in standalone solar photovoltaic energy conversion system for remote school at Tamil Nadu : A Case study</i>	<i>International Journal of Infinite Innovations in Engineering and Technology</i>	<i>Volume 2 Issue 7 pp 1-11.</i>	2015	ISSN (Online): 2349-2287, ISSN (Print): 2349-2279
13	<i>Sumithira T.R</i>	<i>Prediction of Solar PV Power from solar radiation and temperature using Adaptive Neuro Fuzzy Inference System : A case study</i>	<i>International Journal of Revolution in Electrical and Electronic Engineering</i>	<i>Volume 2 Issue 3,pp 19- 20</i>	2015	ISSN (Online): 2350 –0220, ISSN (Print): 2350 –0212
14	<i>Sumithira T.R</i>	<i>Comparitive analysis on Numerical method and ANFIS for prediction of solar radiation</i>	<i>International Journal of Revolution in Electrical and Electronic Engineering</i>	<i>Volume 2 Issue 2 pp 1-9</i>	2015	ISSN (Online): 2350 –0220, ISSN (Print): 2350 –0212
15	<i>Sumithira T.R</i>	<i>Analysis On The Design Of A Fuzzy Logic Based Power System Stabilizer</i>	<i>Asian Journal of Applied Research</i>	<i>Volume 01- Issue 02-, pp- 38-44</i>	2015	E-ISSN: 2395-1702 P-ISSN: 2395-0382
16	<i>A.Sampath, T.R.Sumithira</i>	<i>ECG Morphological Marking using Discrete Wavelet Transform</i>	<i>Intelligent Decision Technologies</i>	<i>vol. 10, no. 4, pp. 373- 383</i>	2016	ISSN 1872-4981 (P) ISSN 1875-8843 (E)
17	<i>M. Premkumar,</i>	<i>“Design and Implementation</i>	<i>Journal of Circuits,</i>	<i>Vol. 28,</i>	2019	

	<i>and T.R. Sumithira</i>	<i>of New Topology for Non-Isolated DC-DC Microconverter with Effective Clamping Circuit”,</i>	<i>Systems, and Computers (JCSC)</i>	<i>No. 5, pp. 1-26</i>		
18	<i>M. Premkumar, and T.R. Sumithira</i>	<i>Humpback Whale Assisted Hybrid Maximum Power Point Tracking Algorithm for Partially Shaded Solar Photovoltaic System</i>	<i>Journal of Power Electronics (JPE)</i>	<i>Vol. 18, No. 6, pp. 1805-1818</i>	<i>November 2018</i>	
19	<i>M. Premkumar, T.R. Sumithira and R. Sowmya</i>	<i>Investigation and Implementation of Solar PV based Forward Microconverter</i>	<i>Journal of Electrical Engineering (JEE),</i>	<i>Vol. 19, No. 3</i>	<i>October 2018</i>	
20	<i>M. Premkumar, T.R. Sumithira, and R. Sowmya,</i>	<i>“Modelling and Implementation of Cascaded Multilevel Inverter as Solar PV Based Microinverter Using FPGA</i>	<i>International Journal of Intelligent Engineering and Systems (IJIES),</i>	<i>Vol.11, No.2, pp.18-27</i>	<i>March-April, 2018</i>	
21	<i>M. Premkumar, T.R. Sumithira, and R. Sowmya</i>	<i>Implementation of Solar PV Based Microconverter with Optimal MPPT Control under Partial Shading Condition</i>	<i>Journal of Electrical Engineering (JEE)</i>	<i>Vol. 19, No.2</i>	<i>August 2018</i>	
22	<i>M. Premkumar, and T.R. Sumithira</i>	<i>Design and Implementation of New Topology for Solar PV Based Transformerless Forward Microinverter</i>	<i>Journal of Electrical Engineering and Technology (Springer)</i>	<i>Vol. 14, No. 1, pp. 145-154</i>	<i>January 2019</i>	