



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**  
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Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi Post Box No: 14, Kadiri Road Angallu (Village), Madanapalle-517325

Department of Electrical and Electronics Engineering

**Faculty Journal Publications 2019-2020**

S.No	Faculty Name	Co-Author	Paper/Book title	Publisher	Impact Factor	DOI	Citations
1.	Dr. Chakkarapani M	M. A. Asha Rani and Pranjit Barman	Green Energy: Renewable Power Generation from Solar (Book Chapter)	Title Book on Renewable Materials and Green Technology Products: Environmental and Safety Aspects, CRC Press of Taylor & Francis Group, Pub Date: October 2020)	-	<a href="http://www.appleacademicpress.com/renewable-materials-and-green-technology-products-environmental-and-safety-aspects/9781771889278">http://www.appleacademicpress.com/renewable-materials-and-green-technology-products-environmental-and-safety-aspects/9781771889278</a>	
2.	Dr. Suprava Chakraborty	-	Reliable energy prediction method for grid connected photovoltaic power plants situated in hot and dry climatic condition	S N Applied Sciences volume 2, Article number: 317 (2020)	-	<a href="https://doi.org/10.1007/s42452-020-2122-8">https://doi.org/10.1007/s42452-020-2122-8</a>	-
3.	Dr. Suprava Chakraborty	Nirmal Kumar Agarwal and Pradip Kumar Sadhu	MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis	IETE Journal of Research,	0.829	<a href="https://doi.org/10.1080/03772063.2019.1662336">https://doi.org/10.1080/03772063.2019.1662336</a>	-
4.	Dr. M. Vijay	Guru Basvaraj	Transverse dynamic analysis of Semi-active quarter car model controlled with an optimal conventional controller	International Journal of Vehicle Performance (Accepted for Publication)	-	-	-
5.	Dr. Soumya Ranjan Mahapatro	Bidyadhar Subudhi	A Robust Decentralized PID Controller based on Complementary Sensitivity Function for a Multivariable System	IEEE Transactions on Circuits and Systems II: Express Briefs (24 September 2019)	3.25	<a href="https://doi.org/10.1109/TCSII.2019.2943382">https://doi.org/10.1109/TCSII.2019.2943382</a>	-



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6.	Dr. Narendrababu A	Pramod Agarwal	Response to Discussion on "Nearest and Non-Nearest Three Vector Modulations of NPCI Using Two-Level Space Vector Diagram—A Novel Approach"	IEEE Transactions on Industry Applications (Volume: 55 , Issue: 5 , Sept.-Oct. 2019 )	3.347	<a href="https://doi.org/10.1109/TIA.2019.2922929">https://doi.org/10.1109/TIA.2019.2922929</a>	-
7.	Dr. Dileep G	-	A survey on smart grid technologies and applications	Renewable Energy 146 (2020) 2589-2625,( 23 August 2019)	5.439	<a href="https://doi.org/10.1016/j.renene.2019.08.092">https://doi.org/10.1016/j.renene.2019.08.092</a>	8
8.	Dr. Arvind Kumar Prajapati	Prasad. R	A New Model Reduction Method for the Linear Dynamic Systems and Its Application for the Design of Compensator	Circuits, Systems, and Signal Processing (2019)	1.922	<a href="https://doi.org/10.1007/s00034-019-01264-1">https://doi.org/10.1007/s00034-019-01264-1</a>	1
9.	Dr. Rajendra Prasad Narne	B. Kavya Deepthi, Venkata Ratnam Kolluru, George Tom Varghese, Dr.N. Srimannarayana	IoT based Smart Environment Using Node-Red and MQTT	Jour of Adv Research in Dynamical & Control Systems, March, 2020 Volume 12, Pages: 21-26, Issue 5	-	<a href="http://doi.org/10.5373/JARDCS/V12I5/20201684">http://doi.org/10.5373/JARDCS/V12I5/20201684</a>	-
10.	Dr. Rajendra Prasad Narne	-	Development of IoT Based and Wi-Fi Controlled Communication Robot by using Node MCU	Int. Journal of Innovative Technology and Exploring Engineering, March, 2020	-	-	-
11.	Dr. M. Chakkarapani	P. K. BOGGARAPU, D. S. Pillai, N. Rajasekar, S. I. Ganesan	Identification and Localization of Array Faults with Optimized Placement of Voltage Sensors in a PV System	IEEE Transactions on Industrial Electronics	-	10.1109/TIE.2020.2998750.	-



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12.	Dr. M. Chakkarapani	P. K. Boggarapu,, B. Lehman, S. I. Ganesan and N. Chilakapati	Identification of Pre-existing/Undetected Line-to-Line Faults in PV Array Based on Pretun on/off Condition of the PV Inverter	IEEE Transactions on Power Electronics, vol. 35, no. 11, pp. 11865-11878, Nov. 2020	-	10.1109/TPEL.2020.2987856.	-
13.	Dr. Pratap Ranjan Mohanty	T. Penthia, A. K. Panda, N. Patnaik	Performance of SMES system with non-linear dynamic evolution control approach for pulsed power load compensation	IET Generation, Transmission & Distribution, vol. 14, no. 10, pp. 1872-1881, 22 5 2020	-	10.1049/iet-gtd.2019.1880.	-
14.	Dr. Pratap Ranjan Mohanty	T. Penthia, A. K. Panda, N. Patnaik	Superconducting magnetic energy storage system with an improved nonlinear control approach for pulsed power applications.	Trans Electr Energy Syst. 2020; 30:e12464	-	<a href="https://doi.org/10.1002/2050-7038.12464">https://doi.org/10.1002/2050-7038.12464</a>	-
15.	Dr. Pradosh Ranjan Sahoo	Sandip Ghosh	On computing critical delay for fixed mode radius: Centralized and decentralized control	Systems & Control Letters, Volume 138,2020,104647, ISSN 0167-6911	-	<a href="https://doi.org/10.1016/j.sysconle.2020.104647">https://doi.org/10.1016/j.sysconle.2020.104647.</a>	-
16.	Dr. Vishwanatha Siddhartha	Jain S, Hote YV, Dehuri P, Mittal D	Experimental validation of fractional order internal model controller design on buck and boost converter	Measurement and Control. May 2020	-	10.1177/0020294020922264	-
17.	Dr. A V Pavan Kumar	G. Dinesh Kumar Reddy, Y. Padmaja, B. Venkata Ramakrishnaiah, P. Bhanu Prasad	Soft Starting Of DC Motor with IoT Application	International Journal of Engineering Research And Management (IJERM) ISSN: 2349- 2058, Volume-07, Issue-06, June 2020	-	<a href="https://www.ijerm.com/download_data/IJERM0706014.pdf">https://www.ijerm.com/download_data/IJERM0706014.pdf</a>	-