Faculty Profile

Basic Information:



NAME	:	**Dr. C. Ganesh**
DESIGNATION	:	**Assistant Professor**
DEPARTMENT	:	**EEE**
DATE OF BIRTH	:	**07/06/1983**
DATE OF JOINING	:	**14/06/2012**
EMAIL ID	:	**ganesh.challa@gmail.com**
EMPLOYEE ID	:	**415**

Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph. D.	S. V. University, Tirupati (Autonomous)	2025
M. Tech	J. N. T. U. Anantapur (Autonomous)	2010
B. Tech	A. I. T. S. Rajampet	2005

Research Details:

1. Areas of Specialization :		Power Electronics & Drives
2. No. of Publications :		45
3. Awards Received :		1) Best Paper Award in 2025 IEEE International Conference in Advances in Power, Signal, and Information Technology (APSIT), at Siksha 'O' Anusandhan University, Bhubaneswar, Odisha. 2) Best Paper Award in 2020 International Conference on Computing, Communication, Electrical and Electronics Engineering (ICCCEEE).
4. Research Guidance		
	No. of PhD Guided:	---
	No. of M. Tech. Guided:	10
	No. of B. Tech. Guided:	30 Batches
5. Details of Professional Membership:		---

6. Subjects Taught	:	1) Electrical Circuits-I 2) Electrical Circuits-II 3) Electrical Machines-I 4) Electrical Machines-II 5) Electrical Machines-III 6) Generation of Electrical Power 7) Transmission of Electrical Power 8) Switchgear and Protection 9) Power System Analysis 10) Power Electronics 11) Power Semiconductor Drives 12) Fundamentals of HVDC & FACTS 13) Electrical Circuit Theory/Network Analysis 14) Electrical Technology 15) Special Electrical Machines 16) Utilization of Electrical Energy 17) Basic Electrical Engineering 18) Power System Dynamics & Stability (M. Tech) 19) Distribution of Electrical Power (M. Tech) 20) Modern Control Theory (M. Tech) 21) Flexible AC Transmission Systems (M. Tech)

Publication Details:

Title	Publisher	Published Year
1) An Enhanced Low Switching Frequency Modulation-Based Symmetric Multi-Level Inverter for Harmonic Mitigation	IEEE	2025
2) Slip Angle Controlled DTC of Open-End Winding Induction Motor Drive using Triple Randomized Decoupled PWM Based Acoustic Noise Mitigation for EV Application.	*PRZEGLĄD ELEKTROTECHNICZNY*	2024
3) Acoustical Noise Mitigation in Slip Angle Controlled DTC of Open-End Winding Induction Motor Drive Using AISPWM Based Triple Randomization Scheme for EV Application.	*ITEGAM- Journal of Engineering and Technology for Industrial Applications*	2024
4) "Acoustic Noise Mitigation in Slip Angle Controlled DTC of Open-End Winding Induction Motor Drive Using Dual Randomized AISPWM for EV Application	*International Journal of Electrical and Electronics Research*	2024
5) Slip angle control-based DTC of open-end winding induction motor drive using dual randomized decoupled PWM for acoustic noise mitigation in EV application	*International Journal of Power Electronics and Drive Systems*	2024
6) IoT – Driven Automation for Streetlight Monitoring and Fault Detection	Industrial Engineering Journal	2024
7) FCS-MPC Based Grid-Tied Self-Balanced Switched Capacitor Reduced Switch Nine Level Inverter.	IEEE	2024
8) Single Phase Grid Connected Nine Level Quadruple Boost Inverter with Current Control and Active Damping Capability	IEEE	2024

9) Improving of Voltage Gain Ability by Using Seven Level and Nine Level Switched Capacitor Multilevel Inverters	IEEE	2024
10) Predictive Control of 1-Φ Grid Connected Reduced Switch 7-Level Triple Boost Inverter	International Journal of Innovations in Engineering and Science	2023
11) A Model Predictive Control of 1-Φ Grid Connected Reduced Switch 7-Level Inverter	International Journal of Food and Nutritional Sciences	2022
12) Unipolar Carrier Based SVPWM For DTC of Open-End Winding Induction Motor Drive	IEEE	2021
13) Reduction of Common Mode Voltage for 3-Level Inverter Fed DTC of open-end Winding Induction Motor Drive	Test Engineering and Management	2020
14) Power quality improvement in PV flyback microinverter using adaptive fuzzy-PR controller	International Journal of Technical Innovation in Modern Engineering & Science	2018
15) Adaptive Fuzzy Proportional Resonant Controller for Photo Voltaic Flyback Micro Inverter with Hybrid Mode	International Journal of Research	2018
16) Brushless DC motor Drive for solar photovoltaic array fed water pumping system by using fuzzy logic controller	International journal of Electrical Engineering	2017
17) An improved efficiency of fuzzy logic control of BLDC motor for solar photo voltaic array fed water pumping system	International Journal of Electrical and Computer Engineering	2017
18) Solar PV array fed water pumping using BLDC motor drive with BOOST-BUCK converter	ICIOTSC-2017	2017
19) Brushless DC motor drive for solar photo voltaic array fed water pumping system by using fuzzy logic controller	ICIOTSC-2017	2017
20) Hybrid filter with CPPM for suppression of common mode voltage and differential mode harmonics in three phase PV inverter	International Journal of Electrical Engineering	2016
21) Suppression of common mode voltage and differential mode harmonics in three phase inverter using hybrid filter	NCRAIPES-2016	2016
22) Power Flow Control in Transmission Grid by Using UPFC With DPC And Fuzzy Logic Controllers"	International Journal of Applied Engineering Research	2015
23) Single-Stage Solar Power Conversion System with PV and battery Management by using fuzzy logic	International Journal of Current Science	2015
24) Improved droop control strategy for grid connected inverters	Indian journal of science and technology	2015
25) Adaptive control and power management in a micro grid by using distribution grids	Indian journal of science and technology	2015
26) Mitigation of inter-area power oscillations by using UPFC control system with fuzzy controller and ST controller	International Journal of Current Science	2015
27) Control of wind energy conversion system and power quality improvement in the sub-rated region using extremum seeking	International Journal of Current Science	2015
28) Damping of oscillations by the addition of ST controller with UPFC control system	ICETER-2015	2015

29) Simulation Of Fuzzy Logic Controller Based Matrix Converter DTC-SVM Method For Induction Motor Drive	International Journal of Computer Engineering and Applications	2014
30) Analysis Of Different Control Techniques to Obtain Maximum Voltage Conversion Ratio of Matrix Converter	International Journal of Computer Engineering and Applications	2014
31) An Energy Storage Based Facts Device to Damp Tie Line Oscillations and Voltage Profile Improvement under Transient State Using Fuzzy Logic Controller	International Journal of Computer Science and Information Security	2014
32) An Auxiliary Fuzzy Logic Controller for Mitigating Low Frequency Oscillations	International Journal of Computer Science and Information Security	2014
33) Transient Stability Enhancement during Damping of Low Frequency Oscillations of a Multi-Machine Power System using Adaptive Neuro – Fuzzy Controller for FACTS devices	International Journal of Latest Trends in Engineering and Technology	2014
34) Fuzzy Logic controller based DSSC for minimizing transient stability problem in power systems	International Journal of Advances in Science Engineering and Technology	2014
35) Fuzzy Logic Controller based Low Frequency Oscillations using SSSC	ICET-2014	2014
36) Transient Stability Enhancement of a Multi-machine Power System Using Adaptive Neuro-Fuzzy Controller for FACTS devices: A Comparison between SSSC and UPFC	ICEECSIT-2014	2014
37) Transient Stability Enhancement of a Multi-machine Power System Using FACTS Based Neuro-Fuzzy Controller	ICAESA-2014	2014
38) Improvement of voltage stability and Damping of inter area oscillations by SMES based UPFC system using fuzzy control	NCES-14	2014
39) Dynamics of Load Voltage Control using DSTATCOM and DVR Compensators	International Journal of Latest Trends in Engineering and Technology	2013
40) Modeling and Analysis of UPFC connected Single Machine System with PSS design using Sliding Mode Control Technique	International Journal of Recent Advance in Engineering and Technology	2013
41) Improving Transient Stability with Fuzzy Logic Controller and Distributed Static Series Compensator	International Journal of Latest Trends in Engineering and Technology	2013
42) Improving Power Quality by Simultaneous Compensation Voltage and Current in a Multi Bus Multi Feeder System using MC-UPQC	International Journal of Recent Advance in Engineering and Technology	2013
43) Fuzzy Logic Controller based DSSC for minimizing Transient Stability problem in power systems	ICEECSME-2013	2013
44) Modeling and Analysis of UPFC connected Single Machine System with PSS design using Sliding Mode Control Technique	ICEEE 2013	2013

45) Power flow controller by using DPFC	NCES-12	2012

Patent Details:

Title of Patent	Submitted/Published/Awarded
PATSP-Electric Motor: Predict and Auto Control the Speed, Torque and Power of the Electric Motor	Published