

Dr.ANKARAO MOGILI M.Tech., Ph. D.

Assistant Professor of EEE & Additional Controller of Examinations

Jawaharlal Nehru Technological University College of Engineering

Anantapur

Ananthapuramu – 515 002, Andhra Pradesh, https://www.jntuacea.ac.in/pdfs/ANKARAO.pdf

Bio-data

Name : Ankarao Mogili

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Additional Controller of Examinations

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(India)

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Nationality : Indian

Religion : Hindu

Educational Qualifications:

S. No.	Qualification	University/Institution	Specialization	Year of award
1.	Ph. D	JNTU Anantapur	Power electronics and Industrial Drives	2020
2.	M.Tech	JNTUA, College of Engineering, Anantapuram	Power & Industrial Drives	2010
3.	B.Tech	Andhra University (GITAM College of Engineering)	Electrical & Electronics Engineering	2006

Professional Experience :

S.No.	Institution/Organization	Position held	Duration
1	JNTUA College of	Assistant Professor	2021 - till date
1	Engineering, Anantapur	(Selection Grade)	2021 - till date
		Department of EEE	
2	JNTUA College of	Assistant Professor	2016 - 2021
2	Engineering, Anantapur	(Senior Scale)	2010 - 2021
		Department of EEE	
2	JNTUA College of	Assistant Professor	2011 – 2016
3	Engineering, Anantapur	Department of EEE	2011 – 2010

Administrative Experience

S.No.	Administrative Post held	Duration
1.	Additional Controller of Examination JNTUA, Anantapur	2024-Till date
2.	NSS Coordinator, JNTUA College of Engineering, Anantapur	2022-2024
3.	Officer incharge of Academic Section in JNTUA College of Engineering, Anantapur	2021-2022
4.	Public Relations Officer(PRO) in JNTUA Anantapur	2016 -2019
5.	Deputy Warden for Lepakshi Hostel, JNTUA College of Engineering, Anantapur	2015 -2016
6.	Head of Electrical & Electronics Engineering Department, JNTUA College of Engineering, Kalikiri	2014-2015
7.	Officer incharge of hostels,JNTUA College of Engineering, Kalikiri	2014-2015
	EC member for JNTUA College of Engineering, Anantapur	2011-2013
	Deputy Warden for Ellora Hostel, JNTUA College of Engineering, Anantapur	2011-2014

The following Seminars / workshops are organized as a Convener / Coordinator. Organized the following programs as Coordinator:

- ❖ Organized as Coordinator of FDP Five Day Faculty Development Programme on "Design and Development of Power Converters for Electric Vehicles" 11-09-2023 to 15-09-2023, Department of EEE, JNTUA College of Engineering, Anantapur.
- ❖ Organized two day National level student symposium on "Electrify your Education" (EYE2K23) on March 28th 2023 at JNTUA Electrical Dept.
- ❖ Organized two day National level student symposium on "Electrify your Education" (EYE2K13) on March 14th 2013 at JNTUA Electrical Dept.
- ❖ Organized one day National level student symposium on "Electrify your Education" (EYE2K12) on March 14th 2012 at JNTUA Electrical Dept.

Teaching Experience: 13+ years of teaching UG & PG Courses

Subjects Taught:

Undergraduate courses	Post graduate courses
 Ondergraduate courses Power Electronics Control Systems Electrical Machines Power semiconductor controlled drives Human values and professional ethics Microprocessors and Microcontrollers 	 Advanced digital signal processing (ADSP) Machine Modeling analysis Switched Mode Power Conversion (SMPC) Special Machines Wind energy conversion systems Solid state AC & DC drives Advanced power semiconductor
	devices

❖ In addition, the laboratories of UG and PG programs in the areas of Electrical and Computers have been dealt with.

RESEARCH EXPERIENCE & GUIDANCE PROVIDED:

A) Details of Ph.Ds' awarded under my Supervision:

S.No	Title of the thesis	Name of the Student	Month of Award
1	Analysis of various control strategies for power quality enhancement in a micro grid	V. Sowmya Sree	July .2024

Ph.d students under my supervision: 04

- B) Publications: Involved in active research in the following fields of Engineering & Technology. Power Electronics &Industrial Drives, Control Systems, Artificial Neural Networks.
- C) Published 46 research papers in various National & International Journals, National & International Conferences, workshops and symposiums.
- D) Guiding Research:

M.Tech Level ... Guided 58 M. Tech dissertations.

B.Tech Level ... Guided more than 13 B.Tech project batches.

Reviewer of Journals

- ❖ Journal of Electrical Engineering & Technology, Springer Journal
- ❖ Journal of Supercomputing (SUPE), Springer journal
- ❖ Journal of The Institution of Engineers (India): Series B, IEI journal

Membership of Scientific / Engineering Bodies

❖ Member of Institution of Engineers (MIE)

Number of Research publications:

International Journals : 52
International Conferences : 06
National Conferences : 01

List of publications: International Journals:

S.	Paper Title	Journal Name, Volume &	Year/ month of
No		Issue	Publication
1	Implementation of PI,	IJRET, Vol. 4, No. 7,	July, 2015
	Fuzzy & ANN controllers		
	to improve dynamic		
	response of Vector		
	Controlled Induction		
	Motor Drive		
2	Comparison of different	IJERA, Vol. 5, No. 7,	July, 2015
	controllers for the		
	improvement of dynamic		
	response of indirect		
	Vector Controlled		
	Induction Motor Drive		
3	Comparison of speed	IJAREEIE, Vol. 4, No. 7,	July, 2015
	controlling Techniques of		
	Field-Oriented Controlled		
	Induction Motor Drives		
4	MRAS and Adaptive	IJAREEIE, Vol. 4, No. 7,	July, 2015
	Observer Techniques for		
	speed estimation in		
	Sensorless Vector		
	Controlled Induction		
	Motor Drive		
5	Speed estimation of	IJAREEIE, Vol. 4, No. 7,	July, 2015
	Sensorless Vector		
	Controlled Induction		
	Motor Drive using ANN		
6	Estimation of rotor	IJAREEIE, Vol. 4, No. 7,	July, 2015

		T	
	velocity in Induction Motor Drive using Sliding		
7	Mode Observer Speed & Torque analysis of IVCIM drive using Fuzzy MRAC	IJAREEIE, Vol. 4, No. 7,	July, 2015
8	Estimation of speed and Parameter identification in Sensorless IM drive By using Second order Sliding-mode Observer and MRAS techniques	IRJET,Vol.2, No.4,	July, 2015
9	Estimation of speed in linear induction motor drive by MRAS using neural network and sliding mode control	IJDACR, Vol. 4, No.2,	Sept, 2015
10	Torque Controller of BLDC Motor using ANFIS Controller	IJSRD, Vol. 3, No. 8,	Aug, 2015
11	A New rotor flux estimator for the torque MRAS based Sensorless Induction motor drive	IRJET, Vol 3, No. 11	Nov, 2016
12	Adapative Sliding mode- MRAS strategy for Sensorless speed control of SPIM drives	IRJET, Vol 4,No. 1	Jan,2017
13	Speed control of parallel connected DSIM fed by six phase inverter with IFOC strategy using ANFIS	IJSRST, Vol.3,No.7	Oct,2017
14	Fuzzy Based Solar PV- Powered SRM Drivefor Electric Vehicles	IJIRSET,Vol.6,No.8	Aug,2017
15	Constant Switching Frequency Predictive CurrentControl Technique with Fuzzy Logic Controller for Field Oriented Permanent Magnet Synchronous Motor Drive	IJRASET,Vol.5,No.11	Nov,2017
16	Speed control and parameter variation of induction motor drives using Fuzzy logic &ADRC controllers	IRJET,Vol.4,No.12	Dec,2017

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17	Open Ended Winding Motor Drive Using A Floating Bridge Multi-	IJSRST,Vol.4,No.2	Feb,2018
	Level Converter		
18	Simulation of 7 level AC-	IJEAS.Vol.5,No.10	Oct,2018
	AC Sparse modular multi- level converter		
10		HEACV-15 N. 10	0 -4 2010
19	Simulation of Fuzzy based M3C-UPQC for power	IJEAS.Vol.5,No.10	Oct,2018
	quality improvement in		
	power grid		
20	Speed Control of	IJSETR,Vol.7,No.3	March,2018
	Oscillation Free IM Drive Using Adaptive-Fuzzy		
	Sliding Mode Control		
21	An Adaptive Neuro Fuzzy	IRJET,Vol.6,No.7	July,2019
	based SMO for Speed Estimation of		
	SensorlessInduction		
	Motor Drives at Zero and		
	Very Low Speeds		
22	Improvement of Fast	IJITEE,Vol.8,No.11	Sep,2019
	Initial Speed Estimation Using Fuzzy Logic		
	Control Technique for		
	Induction Motors in the		
22	Low Speed Range	ID IDTU I CALL	7 2010
23	Self-Tuning PID Controller with Genetic	IRJET,Vol.6,No.6	June,2019
	Algorithm Based Sliding		
	ModeMRAS for Induction		
	Motor Drive		
24	A Modified MPPT Algorithm for PV Systems	IJRASET, Vol. 8, Issue 5	May,2020
	with Climatic Parameters		
	Estimation		
25	Simplified Predictive	IJMPERD,Vol.10,Issue.3	June,2020
	Torque Control Scheme		
	for Open End Winding Induction Motor Using		
	ANFIS Controller		
26	Sensor less Speed	IJMPERD,Vol.10,Issue.3	June,2020
	Estimation of Brushless		
	Doubly-Fed Reluctance Generator using Active		
	Power Base MRAS by PI		
	and ANIFS Controller		
27	A Decoupling Estimation	IJMPERD,Vol.10,Issue.3	June,2020
	Scheme for Rotor Resistance and Mutual		
	Inductance in Indirect		
L	madetance in maneet	<u>l</u>	1

	Vector Controlled Induction Motor Drives by Using PI and ANIFS Controller		
28	Improved MRAS Based Rotor Time Constant Estimation in Induction Motor Drive by Employing the Dot Product of Stator Current and Rotor Flux by ANFIS Controller	IJMPERD,Vol.10,Issue.3	June,2020
29	Speed Estimation Of MRAS Based Induction Motor Drive Utilizing Machine's D- And Q- Circuit Impedances Using PI And ANFIS Controller	IJMPERD,Vol.10,Issue.3	June,2020
30	Parameters Estimation and Auto-Tuning of a Discrete-Time Model Predictive Speed Controller of Induction motor Drives by ANFIS Controller	IJMPERD,Vol.10,Issue.3	June,2020
31	SMCC Based Integral Sliding and Solar PV Based Induction Motor Drive for Water Pumping using a Fuzzy Controller		NOV,2021
32	Determination of Stator Resistance In Sensor Less Induction Motor Drive Through Modified DC injection by Employing ANFIS Controller	Design Engineering(Scopus),Issue.7	NOV,2021
33	NPC Inverter Supplied Induction Motor Drive With ANFIS Controller By Passivity Based Model Predictive Control	Design Engineering(Scopus), Issue.7	NOV,2021
34	Hybrid PV-Wind Energy System Connected to the Grid Using Dynamic Voltage Restorer Based on SMES and Battery for Mitigation of Voltage Sag	Design Engineering(Scopus), Issue.8	NOV,2021

35	Dynamic Identification of Induction Motor Drives by using FUZZY and PI Controllers	Engineering(Scopus), Issue.8	NOV,2021
36	Single Stage Autonomous Solar Water Pumping System Using PI and Fuzzy Controllers	Design Engineering(Scopus), Issue.7	NOV,2021
37	Implementation Of Wind Turbine System Using Fuzzy Controlled Based Induction Motor Drive	Design Engineering(Scopus),Issue.7	NOV,2021
38	Control of Low Voltage Ride through for PMSG Wind Turbines and Energy Storage Systems using ANFIS Controller	Design Engineering(Scopus),Issue.9	NOV,2021
39	GWO Based MPPT Technique for Standalone PV System	Design Engineering(Scopus),Issue.8	NOV,2021
40	Logic Controller for Conversion	International Research Journal of Engineering and Technology (IRJET) Volume:10, Issue: 01	JAN,2023
41		Technology (IRJET)	Jan-2023
42	Partially and Uniformly Shaded PV System Using	UGC Care Group I Listed Journal) Vol-13, Issue-02,	Feb 2023
43	A Combination of PI&FUZZY Logic Based Improved P&O MPPT Technique for Partial	Juni Khyat ISSN: 2278-4632 UGC Care Group I Listed Journal) Vol-13, Issue-02, No.01	Feb 2023
44		IJCSPUB Volume- 13,Issue- 02	June 2023

45	Power quality enhancement Paladyn, Journal of of solar- wind grid Behavioral Robotics connected system employing genetic-based ANFIS controller	June 2023
46	Fuzzy logic controller for International journalof current grid connected wind-PV science (IJCSPUB) Volume-Hybrid power generation for 13,Issue- 02 Islanded and seamless mode	June 2023
47	A New Delta(s) MRAS International journal of current Method with science (IJCSPUB) Volume FuzzyLogic Controller for Induction Motor Speed Estimation.	July 2023
48	Fuzzy Logic Controller International journalof current Based Finite Control setscience (IJCSPUB) Volume model predictive Torque Control For Induction Drives.	July 2023
49	Design and Simulation of International journalof Fuzzy Logic Controller current science (IJCSPUB) Based Extended Kalman Volume Filter Observer with Improved Speed Estimation For Sensorless control.	•
50	Improved Dual mode International journal of current Operation of Wind-solar science (IJCSPUB) Volume-with Energy Storage-Based 13,Issue- 04 Micro grid Integrated to Utility Grid by using ANFIS controller	
51	Sliding Mode Controller International Conference on with Estimator for Recent Trends in Electronics Disturbance Fuzzy Logicand Controller fed PMSM Drive Communication (ICRTEC) s	
52	Model Predictive controller Journal of systems and Multilevel Inverter Engineering and Electronics Design for grid voltage (ISSN NO: 1671-1793) Unbalanced Resilience VOLUME 34, ISSUE 7 Model in Brushless Doubly-Fed Induction Generator Based wind Turbines	Jan 2024

Conference:

S. No	Paper Title	Conference Name, Volume & Issue	Year/ month of Publication
1	MRAS and Adaptive Speed Observer techniques by using Fuzzy controller in Sensorless vector control Induction motor drive	ICREU	Jan,2016
2	Simulation of Indirect Field Oriented Control of Induction Motor Drives using SMO based MRAS by ANFIS controller		2018
3	Dynamic Performance Analysis of Reactive Powerand Improved Rotor Flux Based MRAS forInduction Motor Drives Employing PI and FuzzyController	ICPEICES	2018
4	Implementation of Fuzzy based Second order Sliding mode Observer fed Induction motor drive for Disturbance Rejection analysis		2019
5	Reduction of Effective Disturbance in Six- Phase Induction Machine employing Field Oriented control Strategy		2019
6	Predictive control of AFE Rectifier using Fuzzy Controller	ICAPHMA	2021
7	Sensorless predictive control of AFE Rectifier using fuzzy controller with robust adaptive Inductance estimation		Jan 2021

WORKSHOP ATTENDED

S.No	Name of the workshop	Month & Year
1	Service oriented architecture and cloud	July,2011
	computing	
2	Simulation of Power Electronics and drives	June,2011
3	Smart Grid	Jan,2012
4	Technology Enhanced Learning through	Apr,2014
	IEEE for Imparting Quality Higher	
	Education	
5	Outcome based Education approach in	Aug,2014
	Engineering Curriculum	
6	MATLAB, Simulink and related toolboxes	Oct,2015
	for Engineering education	
7	Awareness on Power systems Simulation	Sep,2015
	analysis using Mi power software	
8	Cyber Security	Oct,2015

9	Awareness on IT/ITES job roles and Big	Aug,2015
	data analytics	
10	Leveraging the power of Networking to	Sep,2016
	unlock the potential of Entrepreneurship	
11	Solar power Technologies	Apr,2016
12	Wind Energy conversion Systems	Apr,2016
13	NSS Youth Festival	Jan,2016
14	NSS Youth Festival	Jan,2017
15	Benefits of Engaging with International organizations	Aug,2018
16	Prospective Energy Sources-Wind &Solar PV systems	March,2018
17	Big data applications in Power systems	Sep,2018
18	Pedagogical Skills for outcome based education	Nov,2018
19	Experimental approaches & Instrumental aspects in Analytical Chemistry	Feb,2019
20	Intelligent Optimization techniques for Engineering problems	Aug,2019
21	Power Electronics for Power Engineers	Oct,2019
22	Electro Ceramics	Sep,2019
23	Materials for Energy conversion & storage	Dec,2019
	devices	,
24	Waste Management	Nov,2019
25	NAAC Awareness program	Jan,2020
26	Power Electronics, Control and Machines for Microgrid System	Dec, 2019
27	Advanced Signal Processing Techniques in Imagng, Radar & 5G Communication Networks	Dec, 2019
28	Circuits and systems with Emerging Sub- Micron Technology	Dec, 2019
29	National Education Policy 2020- Perspective	Feb-2021
30	Recent Trends in Smart Grid	Oct-2019
31	Research Challenges in Electrical Power and Energy	May-2021
32	Integration of Renewable Enenrgy & EV to Microgrid prospects and challenges	Feb-2022
33	Social applications of block chain technology and cyber physical systems	July-2023

FACULTY DEVELOPMENT PROGRAM

S.No	Name	Month & Year
1	Research Methodology	Aug,2012
2	Entrepreneurship	July,2015
3	Big data analysis	Feb,2017
4	Reinforcing professional communication skills	June,2018
	for teaching faulty	
5	Soft skills & Personality development	Dec,2018

6	Innovative Teaching-Learning techniques in	Sep,2019
	Higher education	
7	Research Methodology & Data Analysis	Sep, 2019
8	Awareness on Electric\Hybrid vehicle Engineering	Jan, 2020
9	Challenges & opportunities of energy and sensor	Sep 2020
	Applications	
10	Management of online teaching, learning and assessment in higher education	Sep, 2020
11	Mathematical modelling and simulation for scientists & engineers	Feb, 2020
12	Renewable and clean energy conversion technologies and materials	Jan, 2021
13	Intellectual property rights	June-2021
14	Emerging technologies in generation, operation and control of electrical systems	June-2022
15	Power Electronics Converters' Applications in Microgrid and Vehicular Technology	July-2022
16	Machine Learning in Big Data Analytics	Feb-2023
17	Research Methodology - Methods & Best Practices	May-2023
18	Entrepreneurship Development	June-2023

REFRESHER/STTP COURSE

S.No	Name	Month & Year
01	Softskills for professional Excellence	Nov 2015
02	Engineering & Technology(online)	Dec 2020
03	Recent Advancements in VLSI Modelling and IC Design	July 2023

Date: 27-03-2025

Ananthapuramu.

Ankarao Mogili