ANNAMACHARYAUNIVERSITY

EXCELLENCEINEDUCATION;SERVICETOSOCIETY

(ESTD,UNDER APPRIVATEUNIVERSITIES(ESTABLISHMENTANDREGULATION)ACT,2016)

Rajampet,AnnamayyaDistrict,A.P–516126,INDIA

FacultyProfile

BasicInformation:

NAME : **Palepu Suresh Babu**

DESIGNATION : **Assistant Professor**

DEPARTMENT : EEE

DATEOFBIRTH : **13/06/1984**

DATEOFJOINING : **04/06/2011**

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AcademicProfile:

Qualification	NameoftheBoard/University	YEAR
Ph.D.	Sri Venkateswara University, Tirupati	2024
M.Tech.	Sri Venkateswara University, Tirupati	2010
B.Tech.	JNTU Hyderabad, Hyderabad	2006

ResearchDetails:

1.AreasofSpecialization :		Power System Protection and Security
2.No.ofPublications :		67
3.AwardsReceived :		2
4.ResearchGuidance		
	No.of PhD Guided:	nil
	No.of MTech.Guided:	17
	No.of B.Tech.Guided:	24
5.DetailsofProfessionalMembership:		nil

6.SubjectsTaught	:	1. ELECTRICAL MACHINESI,II,III 2. POWER SYSTEMS (GENERATION AND DISTRIBUTION) 3. POWER SYSTEMS-I, II, III 4. POWER SYSTEMS CONTROL & STABILITY 5. PRINCIPLES OF ELECTRICAL ENGINEERING 6. INSTRUMENTATION 7. LINEAR & DISCRETE SYSTEM ANALYSIS 8. ELECTRICAL TECHNOLOGY 9. ENERGY AUDITING & DEMANDSIDE MANAGEMENT 10. ELECTRICAL ENGINEERING AND ELETRONICS ENGINEERING 11. POWER SYSTEM ANALYSIS 12. SMART GRID 13. RENEWABLE ENERGY SYSTEMS 14. TRANSMISSION OF ELECTRICAL POWER 15. DISTRIBUTION OF ELECTRICAL POWER

Publication Details:

Title	Publisher	Published Year
Optimal distributed generator placement for loss reduction using fuzzy and adaptive grey wolf algorithm	International Journal of Applied	2025
Performance Assessment of a Multi-Verse Optimizer-Based Solar-PV Inverter for Grid-Connected Applications	ITEGAM-JETIA	2025
An Enhanced Distribution System Performance with Optimization Techniques for Location of Electrical Vehicle Charging Stations	ITEGAM-JETIA	2025
ANFIS MODEL OF A PHOTOVOLTAIC AND FUEL CELL BASED HYBRID-MICROGRID SYSTEMS	Journal of the Maharaja Sayajirao University of Baroda	2024
Facial sentiment analysis: Enhancing emotion recognition through advanced convolutional neural network architectures	2024 First International Conference on Innovations in Communications, Electrical and Computer Engineering (ICICEC)	2024
Voltage stability assessment using PMUs and STATCOM	International Journal of Power Electronics and Drive Systems (IJPEDS)	2023
Optimal Placement of PMUs in Smart Grid for Voltage Stability Monitoring using AMPSO and PSAT	International Journal of Electrical and Electronics Research (IJEER)	2023
Adaptive Fractional Order PID Based ANFIS for Brushless DC Motor Speed Control	2023 12th International Conference on Renewable Energy Research and Applications (ICRERA)	2023
Optimal placement of DG and minimization of power loss using naked mole rat algorithm	2023 International Conference on Technology and Policy in Energy and Electric Power (ICT-PEP)	2023
Voltage stability analysis in Power system using PMUs and UPFC	International Journal of Electrical Power System and Technology	2023
Binary spider monkey algorithm approach for optimal siting of the phasor measurement unit for power system state estimation	IAES Int. J. Artif. Intell.(IJAI)	2022

Measurements		
Fire Extinguishing Robot Using IoT	National Conference on Electrical Sciences (NCESâ€“2021)	2022
Guardians of the Inbox A Machine Learning Paradigm for Spam Message Identification	Samdarshi	2022
Modeling and Simulation of Automatic Centralized Micro Grid Controller	Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough: Latest Trends in AI, Volume 2	2021
Optimal PMU Placement for Power System State Estimation Using Improved Binary Flower Pollination Algorithm	2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT)	2021
Optimal Setting of OUPFC Device for real power loss minimization using symbiotic organisms search algorithm	International Journal of Advanced Science and Technology	2020
Symbiotic Organisms Search Algorithm Based Solution for Real Power Loss Minimization using OUPFC Device	International Journal of Recent Technology and Engineering	2020
A backward/forward method for solving load flows in droop-controlled microgrids	Control Applications in Modern Power System: Select Proceedings of EPREC 2020	2020
A Constant Power Generation of Solar Photo Voltaic Systems using MPPT with Fuzzy Logic Controller	International Journal of Innovative Technology and Exploring Engineering	2019
Optimal PMU Placement for Power System Observability Using Binary Particle Swarm Optimization Algorithm	International Journal of Technical Innovation in Modern Engineering & Science	2018
Optimal phasor measurement unit placement in the observability of power system by using spanning tree algorithm	Int. J. Electr. Eng	2017
A Fuzzy Logic Controller based dynamic voltage restorer-ultra capacitor for improving power quality of distribution grid	IJCSPUB-International Journal of Current Scienc (IJCSPUB)	2017
Crow Search Algorithm for Optimal PV and Capacitor Placement for Loss Reduction in the Distribution Systems	International Journal of Control Theory and Applications	2017
Optimal distributed generation and capacitor placement for loss minimization and voltage profile improvement using symbiotic organisms search algorithm	International Journal of Electrical Engineering	2016
SOS algorithm for DG placement for loss minimization considering reverse power flow in the distribution systems	2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT)	2016
Improvement of Transient Stability in Micro-grid using QV Dot Droop Controller	IEEE XPLORE	2016
Application of Crow Search Algorithm for Optimal Placement of Distributed Generation in the Distribution Systems	ELSEVIER International Conference on Current research topics in Power, Nuclear and Fuel Energy	2016
Notice of Removal: Optimal performance enhancement of DG for loss reduction using Fuzzy	2015 International Conference on Electrical, Electronics, Signals, Communication and	2015

Optimal placement of svc using fuzzy and firefly algorithm	IAES International Journal of Artificial Intelligence (IJ-AI)	2015
Simultaneous Network Reconfiguration and DG Placement for Active Power Loss Minimization in Radial Distribution System	IEEE XPLORE	2015
Distribution system protection using parallel resonance fault current limiter for a three phase system	International Journal of Engineering and Applied Sciences	2015
Improved droop control strategy for grid-connected inverters	Indian journal of science and technology	2015
Reconfiguration with simultaneous DG installation to improve the voltage profile in distribution network using harmony search algorithm	Bulletin of Electrical Engineering and Informatics	2015
Deployment Of Distributed Energy Resources In Distribution Systems Using Fuzzified Improved Particle Swarm Optimization	International Journal of Applied Engineering Research	2015
Optimal Placement of DG for Loss Reduction and Voltage Sag Mitigation in Radial Distribution Systems using ABC Algorithm	International Journal on Electrical and Power Engineering	2014
Power quality enhancement in distribution system using D-STATCOM with fuzzy controller	IJERD, e-ISSN: 2278â€“067X	2014
Distribution system network reconfiguration by using artificial bee colony algorithm	IOSR Journal of Electrical and Electronics Engineering	2014
High-Step-Up and High-Efficiency Fuel-Cell Power-Generation System with Active-Clamp Fly Backâ€“Forward Converter	IEEE XPLORE	2014
Optimal location of SVC for real power loss minimization and voltage stability enhancement using harmony search algorithm	Int. J. Electr. Eng. Technol	2014
optimal dg placement for loss reduction using fuzzy harmony search algorithm	International Journal of Applied Engineering Research	2014
Optimal Performance Enhancement of Capacitor in Radial Distribution System Using Fuzzy and HSA	IOSR Journal of Electrical and Electronics Engineering	2014
Siting and Sizing of DG for Loss Reduction and Voltage Sag Mitigation in RDS Using ABC Algorithm.	International Journal of Electrical & Computer Engineering (2088-8708)	2013
Siting & sizing of DG for power loss & THD reduction, voltage improvement using PSO & sensitivity analysis	International Journal of Engineering Research and Development	2013
Recognizing the Hand Written Characters	International Journal of Engineering Innovations and Research	2013
Adversary Model Operation in Cloud Computing	International Journal of Engineering Innovations and Research	2013
Key Performance Indicators in Cloud Computing	International Journal of Engineering Innovations and Research	2013
Optimal capacitor placement using fuzzy and artificial bee colony algorithm for maximum loss reduction	Int. J. Scient. Eng. Res	2012
optimal voltage regulator placement in a radial	International Journal of Engineering	

Real Power Loss Reduction in Distribution systems using Ant Colony Optimization adapted by Graph Theory	International Journal of Modern Engineering Research (IJMER)	2012
Object Oriented Approach to Continuous Neighbor Discovery in Asynchronous Sensor Networks	International Journal of Computer Science & Communication Networks	2012
AN OBJECT ORIENTED APPROACH TO MINING WEB GRAPHS FOR RECOMMENDATIONS	International Journal of Computer Science & Communication Networks	2012

PatentDetails:

TitleofPatent	Submitted/Published/Awarded
nil	nil