Faculty Profile

Basic Information:

NAME	:	Dr. J. SREERANGANAYAKULU
DESIGNATION	:	ASSISTANT PROFESSOR
DEPARTMENT	:	**EEE**
DATE OF BIRTH	:	10-06-1983
DATE OF JOINING	:	01-07-2022
EMAIL ID	:	djs@aitsrajampet.ac.in
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Academic Profile:

Qualification	Name of the Board/University	YEAR
Ph.D.	JNTUA, ANANTAPUR	2022
M. Tech	SVU, TIRUPATI	2008
B. Tech	JNTU, HYDERABAD	2005

Research Details:

1. Areas of Specialization	:	Power System Operation and Control
2. No. of Publications	:	13
3. Awards Received	:	NIL
4. Research Guidance		
	No. of PhD Guided:	NIL
	No. of MTech. Guided:	NIL
	No. of B.Tech. Guided:	05
5. Details of Professional Membership:		ISTE Life Member
6. Subjects Taught	:	Electric Circuits, STLD, PSOC, EADSM, BEEE

Publication Details:

Title	Publisher	Published Year
Comparative Analysis of SVM, Random Forest and Reinforcement Learning for Harmonic Mitigation in Smart Homes	IEEE xplore	2025
Comparison of Torque Pulsations mitigation in Power system using PI and Fuzzy controllers with UPFC and SSSC	Taylor & Francis	2025
Performance evaluation of PV configurations considering degradation rate and hot spots	Indonesian Journal of Electrical Engineering and Computer Science	2024
Reliability Assessment of PV Inverter Considering Degradation Rate and Panel Oversizing	IEEE xplore	2024
Performance Improvement of a Grid Connected PV Inverter with Optimal Controllers	IEEE xplore	2024
Subsynchronous Resonance Mitigation in SMIB System Using GCSC and TCSC with Conventional and Fuzzy Logic Controllers	IEEE xplore	2023
Three Level T Type Quasi Z Source Pv Grid Tied Inverter With Active Power Filter Functionality Under Research Focus	Journal Of Computer Research And Development	2022
Damping of SSR oscillations with STATCOM and TCSC	International Journal of Engineering Research & Technology	2020
Reduction of SSR oscillations in power system network with STATCOM and UPFC	International Journal of Engineering & Technology	2018
Mitigation of Subsynchronous resonance oscillations using Static Var Compensator	IEEE Xplore	2016
Mitigation of subsynchronous Resonance Oscillations Using Static Synchronous Series Compensator	International Journal of Control Theory and Applications	2015
Mitigation of Sub synchronous Resonance Oscillations Using UPFC	Global Journal of Trends in Engineering	2015
Full Bridge Resonant Inverter for Induction Heating Applications	International Journal of Engineering Research and Applications	2013