

M.Tech Programme in POWER SYSTEMS

Student Publications for the year 2022-2023

Sl. No	Author (s)	Paper title	Journal / conference	Name of Journal / conference
1	Praveen Sarma S, Sunil V Chandran, Deepak M	Investigations on Inertial Strategies of DFIG for Fast Frequency Response [Accepted for presentation]	Conference	2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG), Wollongong, Australia (3-6 December 2023)
2	Aravindhana G, Najda V M, Gopakumar P	Performance Analysis of Noniterative Parameter-free Fault Location Method in a Multi-Machine Power System	Conference	2023 Second International Conference on Trends in Electrical, Electronics, and Computer Engineering (TECCON), REVA UNIVERSITY, Bengaluru, India, 23-24 August 2023
3	Akash Agrawal	Enhanced Power Factor Correction and Voltage Stability in Electric Spring Circuits Using Double Fuzzy Logic and Fuzzy PI Controllers	Conference	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE), Shillong, India, 15-17 June 2023
4	Tilkesh Patle; Subha D Puthankattil	Energy Management of a Hybrid Energy Storage System during Regenerative Braking in Electric Vehicle	Conference	3rd ASIAN CONFERENCE ON INNOVATION IN TECHNOLOGY (3rd ASIANCON 2023), PCCOER ,Pune , Maharashtra , India, 25 - 26 August 2023
5	Chaware Swapnil Prabhakar; Subha D Puthankattil	Comparison of regeneration efficiency employing DC shunt motor and three phase induction motor in hybrid powered railway system	Conference	3rd ASIAN CONFERENCE ON INNOVATION IN TECHNOLOGY (3rd ASIANCON 2023), PCCOER, Pune, Maharashtra, India, 25-26 August 2023
6	Praveen Sarma S, Sunil V Chandran, Athul Jose P, Deepak M	PEV assisted Primary Frequency Control of a Wind Integrated Multi-Source Power System	Conference	2022 IEEE International Power and Renewable Energy Conference (IPRECON), Kollam, India, 16-18 December 2022

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Student Publications for the year 2021-2022

1	Rahul Satheesh, NashidaChakkungal, SunithaRajan, Manu Madhavan, Hassan HaesAlhelou,	Identification of Oscillatory Modes in Power System Using Deep Learning Approach.	Journal	IEEE Access, Vol. 10, pp.16556 – 16565, February 2022
2	Athul Jose P and Deepak M	Fast Frequency Support from Doubly Fed Induction Generators in Coordination with Super- conducting Magnetic Energy Storage Systems.	Conference	IEEE International Conference on Power Electronics, Smart Grid & Renewable Energy, pp. 1-6, Trivandrum, India, 2-5 January 2022
3	Athul Jose P, Arun V Jose, Deepak M and Sunitha R	A solution to power balancing in high renewable penetration power system: Use of Abandoned Generating Units.	Conference	IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems. pp. 456-462, Thiruvananthapuram, India, IEEE International
4	Sunil V Chandran, Athul Jose P and Deepak M	Improving Primary Frequency Control of Wind Integrated Power System with RFB.	Conference	IEEE International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies, pp. 1-6, Bhilai, India, 21-22 April 2022
5	Parthkumar Patel; Rahul S; Sunitha R	Identification of dominant modes in power system using unsupervised learning approaches.	Conference	International Conference for Advancement in Technology (ICONAT), pp. 1- 4, Goa, India, 21-22 Jan. 2022
6	Badugu Mahesh Raju, Ashok S	Adaptive Quadrilateral Setting for Distance Protection of Feeder Connecting Renewable Energy.	Conference	IEEE Kansas Power and Energy Conference (KPEC), pp. 1-6, Manhattan, KS, USA, 19-20 April 2021

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1	Nashida C, Rahul S and Sunitha R	Prediction of Electromechanical Oscillatory Parameters in Power Systems Using ANN.	Conference	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies, pp. 1-5, Shillong, Meghalaya, India, 5-7 March 2021
2	Badugu Mahesh Raju, S Ashok	Adaptive Logic for Distance Protection of Feeder Connecting Renewable Energy.	Conference	International Conference on Innovations in Energy Management and Renewable Resources, pp. 1-6, Kolkata India, 5-7 February 2021
3	Garlapati Venkata Rao Nikhil, Sujo Palamoottil George Ashok S,	Design of Adaptive Distance Relay for Transmission Line Protection with Wind Power Integration.	Lecture note	Recent Advances in Power Systems, Publishers: Springer, Part of the Lecture Notes in Electrical Engineering book series, Volume 699, pp 277–288, October 2020
4	P. Anudeep, T. Kobaku, R. Jeyasenthil and D. K. Mohanta,	Improved Load Frequency Disturbance Rejection with Two Port Internal Model Control Structure.	Conference	2020 IEEE India Council International Subsections Conference (INDISCON), pp. 195-199 , Visakhapatnam, India, 03-04 October 2020
5	Annmy Thomas, Subin Koshy, Sunitha R	Machine Learning Based Detection and Classification of Power System Events	Conference	2020 International Conference on Power, Instrumentation, Control and Computing (PICC), pp. 1-6, Thrissur, Kerala, 17-19 December 2020

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Student Publications for the year 2019-2020

1	Mathews Thomas, R Sunitha, M Deepak	Analysis of Plug-in Electric Vehicles Participating in Primary Frequency Control of Hydrothermal Power System at Varying Generation Schedule.	Conference	2020 IEEE 9th Power India International Conference (PIICON), pp. 1-6, Sonapat, India -28th Feb.-1st March 2020
2	Aditya Ranjan Brahma, Vinu Thomas, Kumaravel S., Ashok S	Impact of System Parameters on the Performance of Synchronverter.	Conference	2019 IEEE Region 10 Symposium (TENSYPMP, pp. 120-125, Kolkata, India, 7-9 June 2019
3	Aditya Ranjan Brahma, Kumaravel S., Ashok S	Impact of System Parameters on the Performance of Synchronverter	Conference	2019 IEEE Region 10 Symposium (TENSYPMP), pp. 120-125, Kolkata, India-07-09 June 2019
4	AkhilG. Augustine and O. D. Naidu	A Novel Fault Section Identification Algorithm for a Series-Compensated Transmission Line.	Conference	2019 8th International Conference on Power Systems (ICPS), pp. 1-6, Jaipur, India - 20-22 December 2019
5	AkhilG. Augustine, O. D. Naidu, V. Pradhan and R. Sunitha	Improvement in Fault Location Accuracy using Prony Based Phasor Estimation Techniques.	Conference	2019 Fifth International Conference on Electrical Energy Systems (ICEES), pp. 1-5, Chennai, India 21-22 February 2019
6	Anson Antony and G. Pathirikkat	Synchrophasor Assisted Real Time Angular Stability Awareness Program for Emerging Smart Power Grids.	Conference	2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT), Vol 1 pp. 129-135, Kannur, India, 05-06 July 2019
7	ArunV. Jose, Sunitha. R. and D. M.	Analysis of Variation in Steam Turbine Time Constant on Dynamic Frequency Regulation of a Deregulated Power System.	Conference	IEEE 2nd International Conference on Power and Energy Applications (ICPEA), pp. 17-21, Singapore, 27-30 April 2019

8	S. Hida, V. Pradhan, O. D. Naidu and E. P. Cheriyan	A Critical Review of Distance Relaying Techniques under Power Swing Condition.	Conference	2019 IEEE PES GTD Grand International Conference and Exposition Asia (GTD Asia), pp. 500-505, Bangkok, Thailand, 19-23 March 2019
9	K. H. A. Sahid, V. Thomas, S. Kumaravel and S. Ashok	Performance Comparison of Root-finding Algorithms for Solar Photovoltaic Emulator.	Conference	International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES), pp. 1-5, Mangalore, India, 29-31 August 2019
10	K. H. A. Sahid, V. Thomas, S. Kumaravel and S. Ashok	Comparison of different control strategies and iterative methods for implementation of a photovoltaic emulator for Microgrid applications.	Conference	Kerala science congress (KSC) 2019, Kerala, India
11	Dinesh Patil; OD Naidu; PreethamYalla; S Hida,	An ensemble machine leaning based fault classification method for faults during power swings.	Conference	2019 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia), pp. 4225-4230, Chengdu, China, 21-24 May 2019
12	Juvairiya AP, ShiburanjThayakVeetil, PrasanthPathiyil, Elizabeth P Cheriyan,	Performance analysis of permanent magnet synchronous machine drive using different switching strategies.	Conference	IEEE INT. conference on Intelligent Computing & Control system, Madurai, India - May 2019
13	U N pal, Mohit K Varma, B L Meena, Varun and A K Dhakar,	Investigation of electron emission characteristics of multi-finger ferro electric trigger source for pseudospark switch.	Conference	IEEE international conference on Pulsed Power and Plasma Science conference (PPPS 2019), Orlando, USA, 23-28 June 2019
14	U N pal, Mohit K Varma, R P lamba, B L Meena, and Klaus Frank	Switching Characterization of Multi-gap and Multi-aperture High power Pseudospark switch (PSS).	Conference	IEEE international conference on Pulsed Power and Plasma Science conference (PPPS 2019), Orlando, USA, 23-28 June 2019