

Name of the Faculty : Dr. Rituparna Mukherjee

Designation : Assistant Professor

Department : Electrical Engineering

No. of Publication : 20 (Journal 5 + Book Chapter 12 + Conference 3)

Yet to be Published: 18

Journal Publication :

Type of Journal	DOI No.	Name of the Article	Name of the Author	ISSN No.
IEEE System Journal SCI Indexed	Doi: 10.1109/JSYST.2020.2978504	Development of an Ensemble Decision Tree-Based Power System Dynamic Security State Predictor	R. Mukherjee and A. De	1932-8184
Springer Electrical, SCI Indexed	Doi.org/10.1007/s00202-020-01118-z	Real-time dynamic security analysis of power systems using strategic PMU measurements and decision tree classification	R. Mukherjee and A. De	2092-7592
IJIRSET 2016		Transient Analysis of Single-Phase Transformer Using State Mode	R Majumder, S Ghosh, R Mukherjee	
Journal Of Mines	https://doi.org/10.18311/jmmf/2023/43590	A Convolutional Neural Network based Pattern Classification Approach for Dynamic Security Assessment with Inadequate Energy Sources	R. Mukherjee, A. De, P. K. Saha, S. D. Mukherjee, A. Dhar, and S. Adhikari	
Journal of Mines	https://doi.org/10.18311/jmmf/2023/43590	Power System Transient Stability Analysis using Decision Tree Classifier- A Case Study on the IEEE 57- Bus System	R. Mukherjee, A. De, P. K. Saha, S. D. Mukherjee, A. Dhar, and S. Adhikar	

Book Chapter Publication :

DOI No.	Name of the Article	Name of the Author	ISBN No.
https://doi.org/10.1007/978-981-15-4692-1_5	Transient Stability based Security State Classification of Power System Networks using Kohonen's Neural Network	R. Mukherjee and A. De	978-981-15-4692-1
	HVDC Protection Strategies: An In-Depth Survey and Analysis	Suvraujjal Dutta, Avik Datta, Rituparna Mitra, Rituparna Mukharjee	978-93-6452-860-3
	Ensemble Security Predictor based Power System Dynamic Security State Predictor	Rituparna Mukherjee , Susmita Dhar Mukherjee , Avik Datta, Rituparna Mitra	978-93-6452-860-3
	Power System Transient Stability Analysis using Kohonen Neural Network Security Classifier – a Case Study on the IEEE 57 Bus System	Rituparna Mukherjee, Susmita Dhar Mukherjee, Titas Kumar Nag, Promit Kumar Saha	978-93-6452-860-3
	A Literature Review on High Gain dc-dc Boost Converter .	Promit Kumar Saha, Rituparna Mukherjee , Rituparna Mitra, Suvraujjal Dutta, Susmita Dhar Mukherjee, Aritras Chakraborty	978-93-6452-860-3
	A Review on Application of Solar Energy in Agricultural Sector	Promit Kumar Saha, Rituparna Mukherjee, Suvraujjal Dutta, Rituparna Mitra, Avik Datta, Titas Kumar Nag	978-93-6452-860-3
	Review of the growth prospects for	Susmita Dhar Mukherjee, Rituparna	978-93-6452-860-3

	renewable energy in several countries	Mukherjee, Suvraujjal Dutta	
	A Comparative Review of the Use, Difficulties, and Future of Renewable Energy	Susmita Dhar Mukherjee , Rituparna Mukherjee, Rituparna Mitra	978-93-6452-860-3
https://doi.org/10.22271/ed.book.2863	A Survey on Strategies for Assessing the Dynamic State of Power Systems	Suvraujjal Dutta, Rituparna Mukharjee, Avik Datta and Rituparna Mitra	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	An Investigation on How Variations in PV Power Generation Model Parameters affect Power Systems	Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	The Method of Operation Condition Assessment and How it Can be Usefully for Protection Systems	Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	Indian Power System Frequency Analyses	Suvraujjal Dutta, Avik Datta, Rituparna Mitra and Rituparna Mukharjee	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	An Overview of the Obstacles and Problems Facing Electric Cars in India as Well as the Vehicle to Grid Optimization	Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Rituparna Mitra and Avik Dutta	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	Review on Research Trends on Electric Vehicles	Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujoy Bhowmik and Arunima Mahapatra	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	A Review on Electric Vehicles and Renewable Energy Synergies in Smart Grid	Susmita Dhar Mukherjee, Rituparna Mukherjee, Suvraujjal Dutta	978-93-6135-058-0

		and Promit Kumar Saha	
https://doi.org/10.22271/ed.book.2863	A Comparative Review of the Use, Difficulties and Future of Renewable Energy	Susmita Dhar Mukherjee, Rituparna Mukherjee and Rituparna Mitra	978-93-6135-058-0
https://doi.org/10.22271/ed.book.2863	Overview of Electricity Markets and Opportunities for Distributed and Renewable Energy Sources to Participate in the Market	Rituparna Mitra, Avik Datta, Suvraujjal Dutta, Promit Kumar Saha, Rituparna Mukherjee and Susmita Dhar Mukherjee	978-93-6135-058-0

Conference Publications

1. Angon Bhattacharjee, Rituparna Mukherjee, Abhinandan De, and Pallav Datta “A Neuro-Fuzzy Control Technique for Control of Tank Level in a Lubricant Processing Plant” in National Conference in Modern Trends in Electrical Engineering (NCMTEE–2009) organized jointly by the Department of Electrical Engineering of Hooghly Engineering and Technology College and The Institution of Engineering and Technology (UK) Kolkata Network.
2. Rituparna Mukherjee, and Rikta Mazumder “Switching Transient Analysis of 33/11 kV Baruipur Substation” in National Conference in Modern Trends in Electrical Engineering (NCERT2013) which was organized jointly by the Department of Electrical Engineering of Heritage Institute of Technology and The Institution of Engineering and Technology (UK) Kolkata Network.
3. Arka Panda, Rituparna Mukherjee, Abhinandan De and Samrat Chakraborty “Model Predictive Control for Power System Dynamic Security Enhancement” In 19th IEEE Conference on Power System (NPSC-2016) IIT Bhubaneswar, India.

Yet to be published paper

1. Rituparna Mukherjee, Abhishek Dhar, Susmita Dhar Mukherjee, Suvraujjal Dutta and Promit Kumar Saha, “Machine Learning Applications in Power System Resilience: A Review”, International Conference on Integrative Science and Technology (ICISE)- Sept 2023.
2. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Avik Dutta and Rituparna Mitra, “A Complete Review of Numerous Methods of Voltage Stability Analysis”, International Conference on Integrative Science and Technology (ICISE)- Sept 2023.
3. Rituparna Mukherjee, Abhishek Dhar, Susmita Dhar Mukherjee, Suvraujjal Dutta and Promit Kumar Saha, “Applicability of Random Forest Model for Predicting Groundwater Table in Birbhum District, West Bengal India 77”, International International Conference on Integrative Science and Technology (ICISE)- Sept 2023.
4. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Avik Dutta and Rituparna Mitra “Machine Learning Techniques for Power System Protection from a Utility Perspective”, International Conference on Engineering Design and Computing (ICEDC)- Feb 2024
5. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Avik Dutta and Rituparna Mitra “Review of machine learning applications to power systems studies”, International Conference on Engineering Design and Computing (ICEDC)- Feb 2024.
6. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Titas Kumar Nag and Suvraujjal Dutta, “Power System Relay Protection Technology: Its Development and Use”, International Conference on Engineering Design and Computing (ICEDC)- Feb 2024.

7. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Titas Kumar Nag and Suvraujjal Dutta, "Optimization Techniques in Power System: Review", International Conference on Engineering Design and Computing (ICEDC)- Feb 2024.
8. Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Susmita Dhar Mukherjee, Titas Kumar Nag and Suvraujjal Dutta, "A Useful Method for Machine Learning in Power System Protection", International Conference on Engineering Design and Computing (ICEDC)- Feb 2024.
9. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Rituparna Mitra and Avik Dutta, "An overview of the power systems studies' use of machine learning", International Conference on Integrative Science and Technology (ICISE)- June 2024.
10. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Rituparna Mitra and Titas Kumar Nag, "Detection Of Transmission Line Faults: A Review", International Conference on Integrative Science and Technology (ICISE)- June 2024
11. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Suvraujjal Dutta and Titas Kumar Nag, "A Review on Fault Detection and Allocation Techniques in Power System", International Conference on Integrative Science and Technology (ICISE)- June 2024
12. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujay Bhowmik and Arunima Mahapatra, "Power System And Faults: A Review", International Conference on Integrative Science and Technology (ICISE)- June 2024
13. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujay Bhowmik and Arunima Mahapatra, "A Review on Fault Detection on DC Microgrid", International Conference on Integrative Science and Technology (ICISE)- June 2024.
14. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Rituparna Mitra and Avik Dutta, "Integration of renewable energy sources into the electricity grid", International Conference on Sustainable Research and Development (ICSRD)- Sept 2024
15. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujay Bhowmik and Arunima Mahapatra, "Review of Online Condition Monitoring in Power Systems", International Conference on Sustainable Research and Development (ICSRD)- Sept 2024
16. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Rituparna Mitra and Titas Kumar Nag, "A comprehensive review: Microgrid Protection (AC and DC)", International Conference on Sustainable Research and Development (ICSRD)- Sept 2024
17. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujay Bhowmik and Arunima Mahapatra, "A review on forecasting photovoltaic power using machine learning.", International Conference on Sustainable Research and Development (ICSRD)- Sept 2024
18. Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Suvraujjal Dutta and Titas Kumar Nag, "A literature review on predicting solar energy output using machine learning techniques", International Conference on Sustainable Research and Development (ICSRD)- Sept 2024