

Profile Page



Name : Dr Kailash Chand Sharma
Designation : Assistant Professor
Department : Electrical Engineering
Qualification : Ph.D. Electrical Engineering (Malaviya National Institute of Technology Jaipur)
M.Tech. Power Systems (Malaviya National Institute of Technology Jaipur)
B.E. Electrical Engineering (University of Rajasthan Jaipur)
Address : Room No: 513, 5th Floor, Department of Instrumentation & Control Engineering
Dr. BR Ambedkar NIT Jalandhar
Jalandhar, Punjab - 144011
Email : sharmakc@nitj.ac.in
Phone : 09887221353

Research Interests :

Power System, Electricity Markets, Forecasting, Stochastic Optimization, and Game Theory

Other Profile Links :

Google Scholar Link :

Kailash Sharma [Click Here](#)

Personal Web Link :

Vidwan [Click Here](#) Scopus [Click Here](#) Orcid [Click Here](#) Web of Science [Publons](#) [Click Here](#)

Journal Publications :

Year	Journal	Publication
2020	IEEE Systems Journal	S. Sreekumar, K. C. Sharma, R. Bhakar, "Multi Interval Solar Ramp Product to Enhance Power System Flexibility"
2020	Energy and Built Environment	V. Prakash, K. C. Sharma and R. Bhakar, "Optimal Generation Mix for Frequency Response Adequacy in Future Power System"
2020	International Transactions on Electrical Energy Systems	P. P. Gupta, P. Jain, V. Kalkhambkar, K. C. Sharma, R. Bhakar, "Stochastic SCUC with Battery Energy Storage and Wind Power Integration,"
2020	Technology and Economics of Smart Grids and Sustainable Energy	S. Sreekumar, K. C. Sharma, R. Bhakar, "Grey System Theory Based Net Load Forecasting for High Renewable Penetrated Power Systems"

2019	International Journal of Electrical Power and Energy Systems, vol. 112, pp. 417-427	S. Sreekumar, K. C. Sharma and R. Bhakar, "Gumbel copula based multi interval ramp product for power system flexibility enhancement,"
2019	IET Generation, Transmission and Distribution, vol. 13, no. 13, pp. 2747-2760	P. P. Gupta, P. Jain, K. C. Sharma and R. Bhakar, "Stochastic scheduling of compressed air energy storage in DC SCUC framework for high wind penetration,"
2019	IET Generation, Transmission and Distribution, vol. 13, no. 16, pp. 3725-3733	V. Prakash, K. C. Sharma, R. Bhakar and H. P. Tiwari, "Modified interval scheduling of primary frequency response under uncertain photovoltaic generation,"
2019	International Transactions on Electrical Energy Systems, Special Issue	P. P. Gupta, P. Jain, K. C. Sharma and R. Bhakar, "Optimal scheduling of electric vehicle in stochastic AC SCUC problem for large scale wind power penetration,"
2019	IET The Journal of Engineering, vol. 18, pp. 5028-5032	P. P. Gupta, P. Jain, S. Sharma, K. C. Sharma, and R. Bhakar "Stochastic scheduling of battery energy storage system for large scale wind power penetration,"
2018	IEEE Transactions on Sustainable Energy, vol. 9, no. 1, pp. 302-310, 2018	V. Prakash, K. C. Sharma, R. Bhakar, H. P. Tiwari and F. Li, "Frequency response constrained modified interval scheduling under wind uncertainty,"
2018	IET Generation, Transmission and Distribution, vol. 12, no. 9, pp. 4348-4358, 2018	S. Sreekumar, K. C. Sharma and R. Bhakar, "Gumbel copula based aggregated net load forecasting for modern power systems,"
2014	Energy Conversion and Management, vol. 86, pp. 259-267	K. C. Sharma, R. Bhakar, H.P. Tiwari, "Strategic bidding for wind power producers in electricity markets"
2014	Iranian Journal of Science and Technology Transactions of Electrical Engineering, vol. 38, no. E2, pp. 191-203	K. C. Sharma, R. Bhakar, H.P. Tiwari, "Influence of price uncertainty modeling accuracy on bidding strategy of a multi-unit GENCO in electricity markets,"
2013	Electric Power Components and Systems, vol. 41, no. 3, pp. 271-285	K. C. Sharma, P. Jain, R. Bhakar, "Wind power scenario generation and reduction in stochastic programming framework"

Conference Publications :

Year	Conference	Publication
2019	2nd International Conference on Large-Scale Grid Integration of Renewable Energy in India, New Delhi	A. Vijayvargia, K. C. Sharma and R. Bhakar, "Comparative study of short-term wind speed forecasting models,"
2019	2nd International Conference on Large-Scale Grid Integration of Renewable Energy in India, New Delhi	S. Gupta, K. C. Sharma, V. Prakash, R. Bhakar, "Impact of imbalance price mechanism on bidding strategy of wind power producers,"
2019	2nd International Conference on Large-Scale Grid Integration of Renewable Energy in India, New Delhi	V. Prakash, P. Kushwaha, K. C. Sharma, R. Bhakar and H. Tiwari, "Stochastic security constrained economic dispatch for PFR adequacy under uncertain wind generation,"
2019	8th International Conference on Power Systems, MNIT Jaipur	A. Gupta, K. C. Sharma, A. Vijayvargia and R. Bhakar, "Short-term wind power prediction using hybrid univariate ARIMA-GARCH model,"
2019	8th International Conference on Power Systems, MNIT Jaipur	S. Sreekumar, K. C. Sharma, R. Bhakar, S. Chawda, F. Teotia and V. Prakash, "Deviation charge reduction of aggregated wind power generation using intelligently tuned support vector regression,"

2018	IEEE 20th National Power Systems Conference, NIT, Tiruchirappalli	P. P. Gupta, P. Jain, S. Sharma, K. C. Sharma and R. Bhakar, "Scheduling of energy storage transportation in power system using benders decomposition approach,"
2018	8th IEEE India International Conference on Power Electronics, MNIT Jaipur	V. K. Saini, K. C. Sharma, R. Bhakar, and V. Prakash, "Impact of high renewable generation and electric vehicles penetration on generation scheduling,"
2018	8th IEEE India International Conference on Power Electronics, MNIT Jaipur	V. Prakash, K. C. Sharma R. Bhakar, and H. P. Tiwari, "System inertia prediction for primary frequency response adequacy under uncertain wind generation,"
2018	8th IEEE India International Conference on Power Electronics, MNIT Jaipur	V. Prakash, R. Bhakar, H. P. Tiwari, and K. C. Sharma, "Inertia and primary frequency response assessment under uncertain photovoltaic generation,"
2017	IEEE PES General Meeting, Chicago, USA	V. Prakash, K. C. Sharma, R. Bhakar, H.P. Tiwari, S. Sreekumar, S. Chawda, F. Teotia, "Primary frequency response with stochastic scheduling under uncertain photovoltaic generation,"
2017	6th IEEE International Conference on Computer Application in Electrical Engineering-Recent Advances, IIT Roorkee	K. C. Sharma, R. Bhakar, H. P. Tiwari and Sandeep Chawda, "Scenario based uncertainty modeling of electricity market prices,"
2016	IEEE TENCON 2016: Technologies for Smart Nation, Singapore	S. Sreekumar, K. C. Sharma and R. Bhakar, "Optimized Support vector regression models for short term solar radiation forecasting in smart grid environment,"
2015	IEEE 18th National Power Systems Conference, IIT Guwahati	K. C. Sharma, R. Bhakar, H.P. Tiwari, "Stochastic EPEC approach for wind power trading in competitive electricity market,"
2015	IEEE Power Engineering Society General Meeting, Denver, USA	A. Nayak, K. C. Sharma, R. Bhakar, J. Mathur, "ARIMA based statistical approach to predict wind power ramps,"
2014	IEEE Int. Conf. on Recent Advances and Innovations in Engineering	K. C. Sharma, R. Bhakar, H. P. Tiwari, "Extreme Nash equilibrium of polymatrix game in electricity market,"
2014	IEEE Power Engineering Society General Meeting, Washington, USA	K. C. Sharma, R. Bhakar, N.P. Padhy, "Stochastic Cournot model for wind power trading in electricity markets,"

Professional Affiliations :

Designation	Organization
Member	IEEE, USA
Life Member	Indian Society for Technical Education (ISTE)

Award and Honours :

Title	Activity	Given by	Year
-------	----------	----------	------

Invited Speaker	Lecture on 'Power System operation modeling using GAMS'	Workshop on 'Implementation of Optimization Techniques for Indian Power System Operation', Power System Operation Corporation Limited (A Govt. of India Enterprise), New Delhi	2018
POSOCO Power System Award	M.Tech. thesis work on wind power trading in competitive electricity market	Power System Operation Corporation (POSOCO) and Foundation for Innovation & Technology Transfer (FITT), IIT Delhi.	2013