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2	Manisha Govardhan, **Ranjit Roy**	Economic Analysis of Unit Commitment with Distributed Energy Resources	International Journal of Electrical Power & Energy Systems, **Elsevier publications.**	2015
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4	H.T. Jadhav, **Ranjit Roy**	Optimal power flow solution of power system incorporating stochastic wind power using Gbest guided artificial bee colony algorithm	International Journal of Electrical Power & Energy Systems, Volume 64, January 2015, Pages 562-578, **Elsevier publications.**	2015

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4	Tejas Vyas and **Ranjit Roy**	DG placement in radial distribution network with reconfiguration	Journal of Central Power Research Institute, Bangalore, vol. 8, issue 3, pp. 123-134	September, 2012
5	Tejas Vyas and **Ranjit Roy**	Load flow study of a radial distribution network	Journal of Central Power Research Institute, Bangalore, vol. 7, issue 1, pp. 101-114	2011
6	S. P. Ghoshal **Ranjit Roy**	Optimization of Proportional-Integral-Derivative gains by Evolutionary Programming in Fuzzy Based Automatic Generation Control	Journal of Institution of Engineers, vol. 87, pp. 29-35.	2006
7	S. P. Ghoshal and **Ranjit Roy**	A Comparative Study of Genetic Algorithm based Optimization and Particle Swarm Optimization in Economic Load Dispatch	Journal of Institution of Engineers, vol. 87, pp. 3-9	2006
8	**Ranjit Roy** and S. P. Ghoshal	Optimization of Auction based Bidding costs for deregulated power market	Journal of Institution of Engineers , vol. 89, pp. 22-26	2008
9.	**Ranjit Roy and** S. P. Ghoshal	Optimized AGC Simulation for Multi-area Power Systems	Journal of Institution of Engineers , vol. 89, pp. 29-35	2009

International Conference

Sr. No.	Author(s)	Title of paper	Name of Journals/* Conference Proceedings/ Vol. (No.) etc.	Year of Publication **	PP
1	S.P. Ghoshal, S. Roy, and **Ranjit Roy**	Hybrid Fuzzy based Automatic Generation Control	2nd Int. Conf. on Artificial Intelligence in Science and Technology 2004, The University of Tasmania, Hobart, Australia. (paper is available on www.ieeexplore.ieee.org.)	21st -25th November, 2004	221-226
2	**Ranjit Roy**, and S.P. Ghoshal	Hybrid Genetic Algorithm / Particle Swarm Optimization – Fuzzy based Automatic Generation	IASTED (The International Association of Science and Technology for Development) International Conference on	18-20th April, 2005	115-120

		Control	Energy and Power Systems (EPS2005), Krabi, Thailand (paper is available on www.ieeexplore.ieee.org.)		
3	**Ranjit Roy**, and S.P. Ghoshal	Application of Hybrid Evolutionary Programming and Hybrid Particle Swarm Optimization in Fuzzy Based Automatic Generation Control	International Conference on Computer Applications in Electrical Engineering Recent Advances (CERA2005)" Indian Institute of Technology, Roorkee. (paper is available on www.ieeexplore.ieee.org.)	29th September- 1st October, 2005	641- 648
4	**Ranjit Roy**, and S.P. Ghoshal	Swarm based Optimization of Bidding Cost for a System of GENCOS in a Deregulated Power Market	International Conference on Power System Operation in Deregulated Regime (ICPSODR-2006), Banaras Hindu University (paper is available on www.ieeexplore.ieee.org.)	6-7th March, 2006	365- 371
5	**Ranjit Roy**, and S.P. Ghoshal	Evolutionary Computation Based Optimization in Fuzzy Automatic Generation Control	2006 IEEE Power India Conference, IEEE Power Engineering Society, IEEE Delhi Section. (paper will available on (www.ieeexplore.ieee.org)	10-12th April, 2006	paper id-088
6	**Ranjit Roy**, and S.P. Ghoshal	A Novel Particle Swarm Optimized AGC for Restructured Three-Area Power System	International Conference on Modeling & Simulation, University of Calcutta in association with AMSE: International Association for Modelling & Simulation Technique in Enterprise, France	December 3rd -5th , 2007	In CD
7	S. P. Ghoshal and **Ranjit Roy**	Evolutionary computation based comparative study of TCPS and CES control applied to automatic generation control	2008 IEEE Power India Conference, IEEE Power Engineering Society, IEEE Delhi Section. (paper is available on www.ieeexplore.ieee.org.)	12-15th October, 2008	1-6
8	Nimita A. Gajjar, and **Ranjit Roy**	Voltage Sag Mitigation using DSTATCOM during faults in distribution system	18th Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power, IEEE Bangalore Section	29th August, 2009	In CD
9	Praghnesh Bhatt, S. P. Ghoshal and **Ranjit Roy**	Evolutionary computation based four-area automatic generation control in restructured environment	International Conference on Power System (ICPS 2009), IIT Kharagpur. (paper is available on www.ieeexplore.ieee.org.)	27th -29th December, 2009	1-6
10	Praghnesh Bhatt, S. P. Ghoshal and **Ranjit Roy**	Optimized Automatic Generation Control by SSSC and TCPS in coordination with SMES for Two area	International Conference on advances in Computing, Control and Telecommunication Technologies (ACT 2009) (paper is available	December 28-29, 2009	474- 480

			Hydro-Hydro Power system	on www.ieeexplore.ieee.org.)		
11	Praghnesh Bhatt, **Ranjit Roy** and S. P. Ghoshal	Load frequency stabilization of hydro dominated power system with TCPS and SMES in competitive electricity market	4th International Conference on Computer Applications in Electrical Engineering Recent Advances, Indian Institute of Technology, Roorkee. (paper is available on www.ieeexplore.ieee.org.)	19th -21st February, 2010	1-6
12	Praghnesh Bhatt, **Ranjit Roy** and S. P. Ghoshal	Coordinated control of SSSC and SMES in competitive electricity market for load frequency control	11th International Conference on Probabilistic methods applied to Power Systems (PMAPS2010), Nanyang Technology University, Singapore. (paper is available on www.ieeexplore.ieee.org.)	2010	42-47
13	Praghnesh Bhatt, **Ranjit Roy** and S. P. Ghoshal	Dynamic active power support by doubly fed induction generator for frequency control	11th International Conference on Probabilistic methods applied to Power Systems (PMAPS2010), Nanyang Technology University, Singapore. (paper is available on www.ieeexplore.ieee.org.)	2010	131-136
14	Parmar Hiren S, Vamsi Krishna K, **Ranjit Roy**	Shunt compensation for power quality improvement using a STATCOM controller	International Conference on Control, Communication and Power Engineering 2010.	28th July, 2010	In CD
15	Praghnesh Bhatt, S. P. Ghoshal and **Ranjit Roy**	Automatic generation control of two-area interconnected hydro-hydro restructured power system with TCPS and SMES	International Conference on Control, Communication and Power Engineering 2010.	28th July, 2010	In CD
16	Praghnesh Bhatt, S. P. Ghoshal ,**Ranjit Roy**, and S. Ghoshal	Load frequency control of interconnected restructured power system along with DFIG and coordinated operation of TCPS-SMES	IEEE PEDES 2010 and 2010 Power India Conference, IIT Delhi. (paper is available on www.ieeexplore.ieee.org.)	21st -23rd December, 2010	In CD
17	Khyati Mistry and **Ranjit Roy**	Enhancement of voltage stability index of distribution system by network reconfiguration including static load model and daily load curve,	Innovative Smart Grid Technologies - India (ISGT India), 2011 IEEE PES, vol.17, no.22, (paper is available on www.ieeexplore.ieee.org.)	Dec. 2011	1-3
18	Mistry, Khyati D and **Ranjit Roy**	Load flow solution for ill-condition radial distribution network including static load model and daily load	In IEEE 10th International Conference on Environment and Electrical Engineering (EEEIC), 2011 (paper is available	2011	1-4.

		values."	on www.ieeexplore.ieee.org.)		
19	Prajapati, Khyati and **Ranjit Roy**.	A novel method for distribution system reconfiguration including static load models and daily load curve	In IEEE 2nd International Conference on Electric Power and Energy Conversion Systems (EPECS), 2011 (paper is available on www.ieeexplore.ieee.org.)	2011.	1-5.
20	Bhatt, Praghnesh, **Ranjit Roy**, and S. P. Ghoshal.	Dynamic Contribution of DFIG along with SMES for load frequency control of interconnected restructured power system	In IEEE, 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011 (paper is available on www.ieeexplore.ieee.org.)	2011.	1-5
21	Jadhav, H. T., M. Bhatia, and **Ranjit Roy**.	An application of craziness based shuffled frog leaping algorithm for wind-thermal generation dispatch considering emission and economy	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011(paper is available on www.ieeexplore.ieee.org.)	2011.	1-4.
22	Jadhav, H. T., J. Patel, U. Sharma, and **Ranjit Roy**.	An elitist artificial bee colony algorithm for combined economic emission dispatch incorporating wind power.	In IEEE 2nd International Conference on Computer and Communication Technology (ICCCT), 2011 (paper is available on www.ieeexplore.ieee.org.)	2011.	640-645
23	Jadhav, H. T., and R. Roy.	Economic load dispatch of a power system with wind energy using craziness based shuffled frog leaping algorithm.	In IEEE PES International Conference on Innovative Smart Grid Technologies-India (ISGT India), 2011 (paper is available on www.ieeexplore.ieee.org.)	2011.	23-27
24	Jadhav, H. T., Ananya Deb, and **Ranjit Roy**.	A craziness based differential evolution algorithm for thermal-wind generation dispatch considering emission and economy with valve-point effect.	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011 (paper is available on www.ieeexplore.ieee.org.)	May 2011	1-5
25	Jadhav, H.T and **Ranjit Roy**	A critical review on the grid integration issues of DFIG based wind farms,"	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011 vol.1, no.4, (paper is available on www.ieeexplore.ieee.org.)	May 2012	8-11
26	Jadhav, H. T., Utkarsh Sharma, Jay Patel, and **Ranjit Roy**.	"Gbest guided artificial bee colony algorithm for emission minimization incorporating wind power."	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011 (paper is available	May 2012	1064-1069

			on www.ieeexplore.ieee.org.)		
27	Mistry, K., V. Bhavsar, and Ranjit Roy.	GSA based optimal capacity and location determination of distributed generation in radial distribution system for loss minimization.	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC), 2011 (paper is available on www.ieeexplore.ieee.org.)	May 2012	513-518
28	Jadhav, H. T., Yaman Dalal, Harsh N. Bhandari, and **Ranjit Roy**.	Plant growth simulation algorithm for fuel cost minimization with emission limit and wind power	In IEEE 10th International Conference on, Environment and Electrical Engineering (EEEIC) (paper is available on www.ieeexplore.ieee.org.)	May 2012	1075-1080
29	Vijayan, Rinu J., Subrahmanyam Ch, and **Ranjit Roy**.	Dynamic modeling of microgrid for grid connected and intentional islanding operation.	In IEEE International Conference on Advances in Power Conversion and Energy Technologies (APCET), 2012 (paper is available on www.ieeexplore.ieee.org.)	2012	1-6
30	Govardhan, M. D., and R. Roy.	Artificial Bee Colony based optimal management of microgrid	In IEEE 11th International Conference on Environment and Electrical Engineering (EEEIC), 2012 (paper is available on www.ieeexplore.ieee.org.)	2012	334-339
31	Jadhav, H. T., Drishti Chawla, and **Ranjit Roy**.	Modified teaching learning based algorithm for economic load dispatch incorporating wind power."	In IEEE 11th International Conference on, Environment and Electrical Engineering (EEEIC), 2012 (paper is available on www.ieeexplore.ieee.org.)	2012	397-402
32	Jadhav, H. T., Harsh Bhandari, Yaman Dalal, and **Ranjit Roy**.	Economic load dispatch including wind power using plant growth simulation algorithm."	In IEEE 11th International Conference on, Environment and Electrical Engineering (EEEIC), 2012 (paper is available on www.ieeexplore.ieee.org.)	2012	388-393
33	Chandrakant Rathore, **Ranjit Roy**, Shubham Raj, and Ankit Kumar Sinha.	Mosquitoes-behaviour based (MOX) evolutionary algorithm in static transmission network expansion planning	In IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS), 2013 (paper is available on www.ieeexplore.ieee.org.)	2013	1006-1011
34	Chandrakant Rathore and **Ranjit Roy**.	Impact of distributed generation in transmission network expansion planning problem.	In IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS), 2013 (paper is available on www.ieeexplore.ieee.org.)	2013	1-6
35	Chandrakant Rathore and **Ranjit Roy**.	Load uncertainty based transmission network expansion planning.	In IEEE 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS), 2013 (paper is available on www.ieeexplore.ieee.org.)	2013	1-6
36	Chandrakant	Artificial Bee Colony	In IEEE International Conference	2013	1126-

	Rathore **Ranjit Roy**, Utkarsh Sharma, and Jay Patel.	Algorithm based static transmission expansion planning.	on Energy Efficient Technologies for Sustainability (ICEETS), 2013 (paper is available on www.ieeexplore.ieee.org.)		1131
37	Jadhav, H. T., Shubham Raj, and **Ranjit Roy**.	Solution to economic emission load dispatch problem using modified artificial bee colony algorithm.	In IEEE 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS), 2013 (paper is available on www.ieeexplore.ieee.org.)	2013	1-6
38	Govardhan, Manisha, and **Ranjit Roy**.	Profit based unit commitment using Gbest Artificial Bee Colony algorithm	In IEEE 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS), 2013 (paper is available on www.ieeexplore.ieee.org.)		1-6
39	Manisha Govardhan and **Ranjit Roy**	Impact of Demand side management on unit commitment problem	In IEEE International Conference on International conference on control, instrumentation, energy and communication (CIEC14), Kolkata (paper is available on www.ieeexplore.ieee.org.)	Feb 2nd -4th , 2014	446-450
40	Manisha Govardhan, Mukund Mishra, Shubham Sundeep and **Ranjit Roy**	Solution of price based unit commitment using GABC and TLBO optimization Algorithms	In IEEE International Conference on International conference on control, instrumentation, energy and communication (CIEC14), Kolkata (paper is available on www.ieeexplore.ieee.org.)	Feb 2nd -4th , 2014	667-671
41	Chandrakant Rathore, Shubham Raj Ankit Kumar Sinha and **Ranjit Roy**	Improved-Mosquitoes-Behaviour Based (I-MOX) Evolutionary Algorithm in Transmission Network Expansion Planning	In IEEE International Conference on International conference on control, instrumentation, energy and communication (CIEC14), Kolkata (paper is available on www.ieeexplore.ieee.org.)	Feb 2nd -4th , 2014	538-543
42	Chandrakant Rathore, Shubham Sundeep, Mukund Mishra and **Ranjit Roy**	Transmission Expansion Planning Considering Environmental Issue	In IEEE International Conference on International conference on control, instrumentation, energy and communication (CIEC14), Kolkata (paper is available on www.ieeexplore.ieee.org.)	Feb 2nd -4th , 2014	451-456
43	Khyati Mistry and **Ranjit Roy**	TLBO based optimal placement of DG in Radial Distribution Systems	IEEE TENCON 2014, 22-25th October 2014, Bangkok, Thailand (paper will be available on www.ieeexplore.ieee.org.)	22-25th October 2014	In CD
44	Fenil Master, Manisha Govardhan and **Ranjit Roy**	Economic Analysis of Different demand response programs on unit commitment	IEEE TENCON 2014, 22-25th October 2014, Bangkok, Thailand (paper will be available on www.ieeexplore.ieee.org.)	, 22-25th October 2014	In CD
45	Mukul Dixit and **Ranjit Roy**	Impact of PEVs on automatic generation	IEEE international conference on signal processing, informatics,	19th-21st February,	In CD

Sr. No	Author(s)	Title of paper	Name of Journals/* Conference Proceedings/ Vol. (No.) etc.	Year of Publication **	PP
		control using TLBO algorithm	communication and energy systems at NIT Calicut, India. (paper will be available on www.ieeexplore.ieee.org.)	2015	
46	Chandrakant Rathore and **Ranjit Roy**	Transmission network expansion planning considering pumped-storage unit	IEEE international conference on signal processing, informatics, communication and energy systems at NIT Calicut, India. (paper will be available on www.ieeexplore.ieee.org.)	19th-21st February, 2015	In CD
47	Mukul Dixit and **Ranjit Roy**	PSO-CFA based optimal placement of EVs in radial distribution network for loss minimization	IEEE international conference on electrical, computer and communication technologies at SVS college of engineering Coimbatore, India. (paper will be available on www.ieeexplore.ieee.org.)	5th-7th March, 2015	In CD
48	Chandrakant Rathore and **Ranjit Roy**	Gbest-guided artificial bee colony algorithm based static transmission network expansion planning (STNEP)	IEEE international conference on electrical, computer and communication technologies at SVS college of engineering Coimbatore, India. (paper will be available on www.ieeexplore.ieee.org.)	5th-7th March, 2015	In CD
49	Sundaram Pandiya and **Ranjit Roy**	Particle swarm optimization based optimal reactive power dispatch	IEEE international conference on electrical, computer and communication technologies at SVS college of engineering Coimbatore, India. (paper will be available on www.ieeexplore.ieee.org.)	5th-7th March, 2015	In CD
50	Chirag A Patel, Khyati Mistry and **Ranjit Roy**	Loss allocation in radial distribution system with multiple DG placement using TLBO	IEEE international conference on electrical, computer and communication technologies at SVS college of engineering Coimbatore, India. (paper will be available on www.ieeexplore.ieee.org.)	5th-7th March, 2015	In CD

National Conference

Sr. No	Author(s)	Title of paper	Name of Journals/* Conference Proceedings/ Vol. (No.) etc.	Year of Publication **	PP
1	S.P.Ghoshal, and **Ranjit Roy**	Comparative of Genetic Algorithm and Particle Swarm Optimization for Economic Dispatch	National Power System Conference 2004, Indian Institute of Technology, Madras	27th -30th December, 2004	574-578
2	**Ranjit Roy**, and S.P.	GA/PSO Based Optimization	National Power System	27th -30th	In CD

	Ghoshal	of Bidding Costs for Deregulated Power Markets	Conference 2006, Indian Institute of Technology, Roorkee	December, 2006	
3	**Ranjit Roy**, and S.P. Ghoshal	Optimized AGC Simulator in Deregulated Power Markets	National Power System Conference 2006, Indian Institute of Technology, Roorkee	27th -30th December, 2006	In CD
4	S.P.Ghoshal, and **Ranjit Roy**	Bacteria Foraging Optimization based Four-Area Automatic Generation Control in Restructured Environment	3rd National Conference on Current trends in Technology (NUCONE 2008), Nirma University of Science & Technology, Ahmedabad	27th -29th November, 2008	In CD
5	Faizal M.F. Hafiz, **Ranjit Roy**, Rakesh Maurya and S.P. Ghoshal	PSO Optimized Small Signal Stability Analysis of DFIG for WECS	3rd National Conference on Current trends in Technology (NUCONE 2008), Nirma University of Science & Technology, Ahmedabad	27th -29th November, 2008	In CD
6	V.A. Shah, Jivanadhar A Joshi, Ranjan Maheshwari, and **Ranjit Roy**	Ultracapacitor technology and its applications	Proc. of 17th National Power System Conference 2012, Indian Institute of Technology, Bombay	16th -18th December, 2012	In CD
7	**Ranjit Roy** and Nimita A. Gajjar	DSTATCOM as an effective solution to voltage sag problems during faults in power system	4th National Conference on Current trends in Technology (NUCONE 2009), Nirma University of Science & Technology, Ahmedabad	25th -27th November, 2009	In CD
8	Praghnesh Bhatt, S. P. Ghoshal, S. Ghosal and **Ranjit Roy**	Frequency control of interconnected two-area restructured power system along with wind power penetration by DFIG	Proc. of 16th National Power System Conference 2010, Osmania University, Hyderabad, India.	15th -17th December, 2010	In CD
9	Hiren S Parmar, Vamsi Krishna K, **Ranjit Roy**, and S.P. Ghoshal	STATCOM-SMES system co-ordination in controlling power system dynamics	Proc. of 16th National Power System Conference 2010, Osmania University, Hyderabad, India.	15th -17th December, 2010	In CD, pp. 393-398
10	Khyati Mistry, and **Ranjit Roy**	Application of Teaching Learning based optimization for size and location determination of distributed generation in radial distribution system	Proc. of 17th National Power System Conference 2012, Indian Institute of Technology, BHU, Varanasi	12th -14th December, 2012	In CD

Sponsored Project

Name of the Project	Sponsor	Worked as	Project Status
Variable Speed Wind Energy Conversion System for Domestic Use	The Institution of Engineers (India)	Principal Investigator	Completed

Prof. Sayantan Chakraborty, Assistant Professor

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	Dipak Ghosh, Srimonti Dutta, **Sayantan Chakraborty**	Multifractal detrended cross-correlation analysis for epileptic patient in seizure and seizure free status	Chaos, Solitons & Fractals, **Elsevier publications.**	2014
2	Dipak Ghosh, Srimonti Dutta, **Sayantan Chakraborty**	Multifractal detrended cross-correlation analysis of market clearing price of electricity and SENSEX in India	Physica, **Elsevier publications.**	2015
3	Dipak Ghosh, Srimonti Dutta, **Sayantan Chakraborty**	Multifractal behavior of electricity bid price in Indian energy market	International Journal of Electrical Power & Energy Systems **Elsevier publications.**	2016
4	**Sayantan Chakraborty**	Quantitative assessment of neuropathy and Myopathy using chaos based analysis of Electromyography signals	23rd West Bengal State Science & Technology Congress 2016, 28–29 February 2016, Presidency University, Kolkata, West Bengal, India	2016

Prof. Anirban Chowdhury, Assistant Professor

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	**A.Chowdhury**, M. Basu	Cuckoo search algorithm for economic dispatch	Energy, **Elsevier publications.**	2013

Prof. Pradyumna Roy, Assistant Professor

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	**Pradyumna Roy**, P. Bera, S. Halder, P. K. Das	Reactive Power Sensitivity Index based Voltage StabilityAnalysis to a Real System (400KV System of WBSEB)	**IJECT**	2013
2	P. K. Das, **Pradyumna Roy**, P. Bera, S. Halder	A Novel Approach for Transmission Expansion Planning to a Real System (400KV System of WBSEDCL)	International Conference on Control, Instrumentation, Energy & Communication, *IEEE* Explore Digital Library	2014

Prof. Poushali Pal, Assistant Professor

Sr. No.	Authors	Title of the paper	Name of journal	Year

| 1 | Poushali Pal | Optimal Location for the Placement of DGs using LMP in Deregulated Electricity Market | National Conference on Recent Advances in Electrical Power and Energy System Management (RAEPESM 2011), Gorakhpur, 2011 | 2011 |