

# DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE

## DEPARTMENT OF ELECTRICAL ENGINEERING

PROF. (DR.) RANJIT ROY, PROFESSOR & HEAD

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	Chandrakant Rathore, <b>Ranjit Roy</b>	Impact of wind uncertainty, plug-in-electric vehicles and demand response program on transmission network expansion planning	International Journal of Electrical Power & Energy Systems, <b>Elsevier publications.</b>	2015 (in print)
2	Manisha Govardhan, <b>Ranjit Roy</b>	Economic Analysis of Unit Commitment with Distributed Energy Resources	International Journal of Electrical Power & Energy Systems, <b>Elsevier publications.</b>	2015
3	Manisha Govardhan, <b>Ranjit Roy</b>	Generation scheduling in smart grid environment using global best artificial bee colony algorithm	International Journal of Electrical Power & Energy Systems, Volume 64, January 2015, Pages 260-274, <b>Elsevier publications.</b>	2015
4	H.T. Jadhav, <b>Ranjit Roy</b>	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, <b>Elsevier publications.</b>	2015
5	Chandrakant Rathore, <b>Ranjit Roy</b>	A novel modified GBMO algorithm based static transmission network expansion planning	International Journal of Electrical Power & Energy Systems, Volume 62, November 2014, Pages 519-531, <b>Elsevier publications.</b>	2014
6	H.T. Jadhav, <b>Ranjit Roy</b>	Effect of turbine wake on optimal generation schedule and transmission losses in wind integrated power system	Sustainable Energy Technologies and Assessments, Volume 7, September 2014, Pages 123-135, <b>Elsevier publications.</b>	2014
7	Khyati D. Mistry, <b>Ranjit Roy</b>	Impact of demand response program in wind integrated distribution network	Electric Power Systems Research, Volume 108, March 2014, Pages 269-281, <b>Elsevier publications.</b>	2014
8	Khyati D. Mistry, <b>Ranjit Roy</b>	Enhancement of loading capacity of distribution system through distributed generator placement considering techno-economic benefits with load growth	International Journal of Electrical Power & Energy Systems, Volume 54, January 2014, Pages 505-515, <b>Elsevier publications.</b>	2014
9	H.T. Jadhav, <b>Ranjit Roy</b>	Gbest guided artificial bee colony algorithm for environmental/economic dispatch	Expert Systems with Applications, Volume 40, Issue 16, 15 November 2013, Pages 6385-6399, <b>Elsevier</b>	2013

		considering wind power	<b>publications.</b>	
10	H.T. Jadhav, <b>Ranjit Roy</b>	A comprehensive review on the grid integration of doubly fed induction generator	International Journal of Electrical Power & Energy Systems, Volume 49, July 2013, Pages 8-18, <b>Elsevier publications.</b>	2013
11	Praghnes Bhatt, S.P. Ghoshal, <b>Ranjit Roy</b>	Coordinated control of TCPS and SMES for frequency regulation of interconnected restructured power systems with dynamic participation from DFIG based wind farm	Renewable Energy, Volume 40, Issue 1, April 2012, Pages 40-50, <b>Elsevier publications.</b>	2012
12	Praghnes Bhatt, <b>Ranjit Roy</b> , S.P. Ghoshal	Comparative performance evaluation of SMES–SMES, TCPS–SMES and SSSC–SMES controllers in automatic generation control for a two-area hydro–hydro system	International Journal of Electrical Power & Energy Systems, Volume 33, Issue 10, December 2011, Pages 1585-1597, <b>Elsevier publications.</b>	2011
13	Praghnes Bhatt, <b>Ranjit Roy</b> , S.P. Ghoshal	Dynamic participation of doubly fed induction generator in automatic generation control	Renewable Energy, Volume 36, Issue 4, April 2011, Pages 1203-1213, <b>Elsevier publications.</b>	2011
14	Mahavir Zala, H.T. Jadhav, <b>Ranjit Roy</b>	Application of STATCOM to enhance the power quality of grid containing induction generator based wind farm	Int. Journal on Recent Trends in Engineering and Technology, vol. 5, no. 2, pp. 26-29, 2011, <b>Elsevier publications.</b>	2011
15	Praghnes Bhatt, S.P. Ghoshal, <b>Ranjit Roy</b>	Load frequency stabilization by coordinated control of Thyristor Controlled Phase Shifters and superconducting magnetic energy storage for three types of interconnected two-area power systems	International Journal of Electrical Power & Energy Systems, Volume 32, Issue 10, December 2010, Pages 1111-1124, <b>Elsevier publications.</b>	2010
16	Praghnes Bhatt, <b>Ranjit Roy</b> , S P Ghoshal	Short term active power support from DFIG in association with SMES for automatic generation control of interconnected two-area restructured power system	Electric Power Components and Systems, <b>Taylor &amp; Francis</b>	accepted for publication
17	Praghnes Bhatt, S P Ghoshal, <b>Ranjit Roy</b>	Automatic Generation Control of Two-area Interconnected Hydro-Hydro Restructured Power System with TCPS and SMES	Electrical and Power Engineering. vol. 1, no. 2, <b>Academy Publishers, Finland</b>	2010
18	Parmar Hiren S, Vamsi Krishna K, <b>Ranjit Roy</b>	Shunt Compensation for Power Quality Improvement using a STATCOM Controller	Electrical and Power Engineering. vol. 1, no. 2 <b>Academy Publishers, Finland</b>	2010

19	<b>Ranjit Roy</b> , Praghnesh Bhatt, S.P. Ghoshal	Evolutionary computation based three-area automatic generation control	Expert Systems with Applications, Volume 37, Issue 8, August 2010, Pages 5913-5924, <b>Elsevier publications.</b>	2010
20	Praghnesh Bhatt, <b>Ranjit Roy</b> , S.P. Ghoshal	GA/particle swarm intelligence based optimization of two specific varieties of controller devices applied to two-area multi-units automatic generation control	International Journal of Electrical Power & Energy Systems, Volume 32, Issue 4, May 2010, Pages 299-310, <b>Elsevier publications.</b>	2010
21	Praghnesh Bhatt, <b>Ranjit Roy</b> , S.P. Ghoshal	Optimized multi area AGC simulation in restructured power systems	International Journal of Electrical Power & Energy Systems, Volume 32, Issue 4, May 2010, Pages 311-322, <b>Elsevier publications.</b>	2010
22	<b>Ranjit Roy</b> , S.P. Ghoshal	A novel crazy swarm optimized economic load dispatch for various types of cost functions	International Journal of Electrical Power & Energy Systems, Volume 30, Issue 4, May 2008, Pages 242-253, <b>Elsevier publications.</b>	2008

#### National Journal

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	Manisha Govardhan and <b>Ranjit Roy</b>	Impact of Demand Response on Unit Commitment in Micro-grid Environment	Journal of Central Power Research Institute, Bangalore, vol. 10, issue 1, pp. 87-100	March, 2014
2.	Prashant Pandya and <b>Ranjit Roy</b>	Reliable control strategy related to hybrid energy system for on-grid electrification of villages in weak-grid environment	<b>Journal of Central Power Research Institute, Bangalore, vol. 9, issue 1, pp. 9-18</b>	March, 2013
3	Prashant Pandya and <b>Ranjit Roy</b>	Wind-Fuel Cell Base Hybrid Energy System for On-Grid Electrification of villages	Journal of Central Power Research Institute, Bangalore, vol. 8, issue 4, pp. 277-287	December, 2012
4	Tejas Vyas and <b>Ranjit Roy</b>	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 <b>Ranjit Roy</b>	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 <b>Ranjit Roy</b>	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 <b>Ranjit Roy</b>	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	<b>Ranjit Roy</b> 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.	<b>Ranjit Roy and</b> 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 <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	21st -25th November, 2004	221-226
2	<b>Ranjit Roy</b> , and S.P. Ghoshal	Hybrid Genetic Algorithm / Particle Swarm Optimization – Fuzzy based Automatic Generation Control	IASTED (The International Association of Science and Technology for Development) International Conference on Energy and Power Systems (EPS2005), Krabi, Thailand (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	18-20th April, 2005	115-120
3	<b>Ranjit Roy</b> , 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	29th September-1st October, 2005	641-648
4	<b>Ranjit Roy</b> , 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	6-7th March, 2006	365-371
5	<b>Ranjit Roy</b> , 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 ( <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	10-12th April, 2006	paper id-088

6	<b>Ranjit Roy, and S.P. Ghoshal</b>	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 <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	12-15th October, 2008	1-6
8	Nimita A. Gajjar, and <b>Ranjit Roy</b>	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	Praghnes Bhatt, S. P. Ghoshal and <b>Ranjit Roy</b>	Evolutionary computation based four-area automatic generation control in restructured environment	International Conference on Power System (ICPS 2009), IIT Kharagpur. (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	27th -29th December, 2009	1-6
10	Praghnes Bhatt, S. P. Ghoshal and <b>Ranjit Roy</b>	Optimized Automatic Generation Control by SSSC and TCPS in coordination with SMES for Two area Hydro-Hydro Power system	International Conference on advances in Computing, Control and Telecommunication Technologies (ACT 2009) (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	December 28-29, 2009	474-480
11	Praghnes Bhatt, <b>Ranjit Roy</b> 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	19th -21st February, 2010	1-6
12	Praghnes Bhatt, <b>Ranjit Roy</b> 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2010	42-47
13	Praghnes Bhatt, <b>Ranjit Roy</b> 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2010	131-136

14	Parmar Hiren S, Vamsi Krishna K, <b>Ranjit Roy</b>	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	Praghnes Bhatt, S. P. Ghoshal and <b>Ranjit Roy</b>	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	Praghnes Bhatt, S. P. Ghoshal, <b>Ranjit Roy</b> , 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	21st -23rd December, 2010	In CD
17	Khyati Mistry and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	Dec. 2011	1-3
18	Mistry, Khyati D and <b>Ranjit Roy</b>	Load flow solution for ill-condition radial distribution network including static load model and daily load values."	In IEEE 10th International Conference on Environment and Electrical Engineering (EEEIC), 2011 (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	2011	1-4.
19	Prajapati, Khyati and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	2011.	1-5.
20	Bhatt, Praghnes, <b>Ranjit Roy</b> , 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	2011.	1-5
21	Jadhav, H. T., M. Bhatia, and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> )	2011.	1-4.
22	Jadhav, H. T., J. Patel, U. Sharma, and <b>Ranjit Roy</b> .	An elitist artificial bee colony algorithm for combined economic	In IEEE 2nd International Conference on Computer and Communication Technology	2011.	640-645

		emission dispatch incorporating wind power.	(ICCT), 2011 (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)		
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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	May 2012	1064-1069
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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2012	334-339

31	Jadhav, H. T., Drishti Chawla, and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2012	397-402
32	Jadhav, H. T., Harsh Bhandari, Yaman Dalal, and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2012	388-393
33	Chandrakant Rathore, <b>Ranjit Roy</b> , 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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2013	1006-1011
34	Chandrakant Rathore and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2013	1-6
35	Chandrakant Rathore and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2013	1-6
36	Chandrakant Rathore <b>Ranjit Roy</b> , Utkarsh Sharma, and Jay Patel.	Artificial Bee Colony Algorithm based static transmission expansion planning.	In IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS), 2013 (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2013	1126-1131
37	Jadhav, H. T., Shubham Raj, and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2013	1-6
38	Govardhan, Manisha, and <b>Ranjit Roy</b> .	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)		1-6
39	Manisha Govardhan and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	Feb 2nd -4th , 2014	446-450
40	Manisha Govardhan,	Solution of price based unit commitment using GABC	In IEEE International Conference on International conference on	Feb 2nd -4th ,	667-



	Mukund Mishra, Shubham Sundeeep and <b>Ranjit Roy</b>	and TLBO optimization Algorithms	control, instrumentation, energy and communication (CIEC14), Kolkata (paper is available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	2014	671
41	Chandrakant Rathore, Shubham Raj Ankit Kumar Sinha and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	Feb 2nd -4th , 2014	538-543
42	Chandrakant Rathore, Shubham Sundeeep, Mukund Mishra and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	Feb 2nd -4th , 2014	451-456
43	Khyati Mistry and <b>Ranjit Roy</b>	TLBO based optimal placement of DG in Radial Distribution Systems	IEEE TENCON 2014, 22-25th October 2014, Bangkok, Thailand (paper will be available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	22-25th October 2014	In CD
44	Fenil Master, Manisha Govardhan and <b>Ranjit Roy</b>	Economic Analysis of Different demand response programs on unit commitment	IEEE TENCON 2014, 22-25th October 2014, Bangkok, Thailand (paper will be available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	, 22-25th October 2014	In CD
45	Mukul Dixit and <b>Ranjit Roy</b>	Impact of PEVs on automatic generation control using TLBO algorithm	IEEE international conference on signal processing, informatics, communication and energy systems at NIT Calicut, India. (paper will be available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	19th-21st February, 2015	In CD
46	Chandrakant Rathore and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	19th-21st February, 2015	In CD
47	Mukul Dixit and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	5th-7th March, 2015	In CD
48	Chandrakant Rathore and <b>Ranjit Roy</b>	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	5th-7th March, 2015	In CD

			available on <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)		
49	Sundaram Pandiya and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	5th- 7th March, 2015	In CD
50	Chirag A Patel, Khyati Mistry and <b>Ranjit Roy</b>	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 <a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a> .)	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 <b>Ranjit Roy</b>	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	<b>Ranjit Roy</b> , and S.P. Ghoshal	GA/PSO Based Optimization of Bidding Costs for Deregulated Power Markets	National Power System Conference 2006, Indian Institute of Technology, Roorkee	27th -30th December, 2006	In CD
3	<b>Ranjit Roy</b> , 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 <b>Ranjit Roy</b>	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, <b>Ranjit Roy</b> , 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 <b>Ranjit Roy</b>	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	<b>Ranjit Roy</b> and	DSTATCOM as an effective	4th National Conference on	25th -27th	In CD

	Nimita A. Gajjar	solution to voltage sag problems during faults in power system	Current trends in Technology (NUCONE 2009), Nirma University of Science & Technology, Ahmedabad	November, 2009	
8	Praghnes Bhatt, S. P. Ghoshal, S. Ghosal and <b>Ranjit Roy</b>	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, <b>Ranjit Roy</b> , 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 <b>Ranjit Roy</b>	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, <b>Sayantan Chakraborty</b>	Multifractal detrended cross-correlation analysis for epileptic patient in seizure and seizure free status	Chaos, Solitons & Fractals, <b>Elsevier publications.</b>	2014
2	Dipak Ghosh, Srimonti Dutta, <b>Sayantan Chakraborty</b>	Multifractal detrended cross-correlation analysis of market clearing price of electricity and SENSEX in India	Physica, <b>Elsevier publications.</b>	2015
3	Dipak Ghosh, Srimonti Dutta, <b>Sayantan Chakraborty</b>	Multifractal behavior of electricity bid price in Indian energy market	International Journal of Electrical Power & Energy Systems <b>Elsevier publications.</b>	2016
4	<b>Sayantan Chakraborty</b>	Quantitative assessment of neuropathy and Myopathy using chaos based analysis of	23rd West Bengal State Science & Technology Congress 2016, 28-29 February 2016, Presidency	2016

		Electromyography signals	University, Kolkata, West Bengal, India	
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**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, <b>Elsevier publications.</b>	2013

**Prof. Pradyumna Roy, Assistant Professor**

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	<b>Pradyumna Roy</b> , P. Bera, S. Halder, P. K. Das	Reactive Power Sensitivity Index based Voltage Stability Analysis to a Real System (400KV System of WBSEB)	<b>IJECT</b>	2013
2	P. K. Das, <b>Pradyumna Roy</b> , 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, <i>IEEE Explore Digital Library</i>	2014

**Prof. Poushali Pal, Assistant Professor**

Sr. No.	Authors	Title of the paper	Name of journal	Year
1	<b>Poushali Pal</b>	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

**Prof. Tanmay Das, Assistant Professor**