

## Research Publications in Journals

Sl. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number
1	ZnO and TiO <sub>2</sub> nanostructured Dye sensitized Solar photovoltaic cell	<b>Dola Sinha</b> , D. De, D. Goswami, A Mondal, A Ayaz.	EE	Materials Today proceedings, Elsevier	2019	ISSN: 2214-7853
2	Optimal fractional order PI $\lambda$ D $\mu$ controller for stabilization of cart inverted pendulum system: Experimental results	Reetam Mondal , <b>Arindam Chakraborty</b> , Jayati Dey , Suman Halder	EE	Asian journal of control, Wiley	2019	ISSN:1934-6093
3	Periodic controller for guaranteed simultaneous stabilization of two plants with robust zero error tracking	<b>Arindam Chakraborty</b> , Jayati Dey	EE	<u>Proceedings of the Institution of Mechanical Engineers Part I Journal of Systems and Control Engineering</u>	2018	0959-6518 (print) 2041-3041 (web)
4	Robust Stability and Chaotic Behavior of a Periodic Compensated Time Delayed Inverted Pendulum	<b>Arindam Chakraborty</b> Jayati Dey	EE	International Journal of Mechanical and Production Engineering Research and Development	2018	ISSN (P): 2249-6890; ISSN (E): 2249-8001
5	Robust Stabilization of Cart-Inverted Pendulum in Course of Hill Climbing with Periodic Controller	<b>Arindam Chakraborty</b> Jayati Dey	EE	International Journal of Mechanical and Production Engineering Research and Development	2018	ISSN (P): 2249-6890; ISSN (E): 2249-8001
6	Fuzzy based DC/DC Boost Converter Design to Enhance Efficacy of Photovoltaic Application,	<b>Dola Sinha</b> , A. Sarkar , D. Das Bairagya , S. Pal , S. Bandyopadhyay & R. Ghosh.	EE	International Journal of Mechanical and Production Engineering Research and Development	2018	ISSN (E): 2249-8001

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7	Fabrication of DSSC with nanostructured ZnO photo-anode and natural dye sensitizer	<b>Dola Sinha</b> , D. De , D. Goswami , A. Ayaz	EE	Materials Today proceedings, Elsevier	2018	ISSN: 2214-7853
8	Bare Bones Teaching Learning Based Optimization Technique for Economic Emission Load Dispatch Problem Considering Transmission Losses.	Deblina Maity <b>Sumit Banerjee</b> Chandan Kumar Chanda	EE	<u>Iranian Journal of Science and Technology,</u> <u>Transactions of Electrical Engineering</u>	2018	Print ISSN 2228-6179 Online ISSN 2364-1827
9	Capacitor placement in radial distribution system using oppositional cuckoo optimization algorithm	<b>Sneha Sultana</b> , Provas Kumar Roy	EE	International Journal of Swarm Intelligence Research (IJSIR)	2018	ISSN: 1947-9263
10	Optimal Design of Power system stabilizer using novel evolutionary algorithm	<b>Sourav Paul</b> , Provas kumar Roy	EE	<u>International Journal of Energy Optimization and Engineering (IJEQE)</u>	2018	ISSN: 2160-9500 / 2160-9543
11	Performance and stability analysis of curcumin dye as a photo sensitizer used in nanostructured ZnO based DSSC	<b>Dola Sinha</b> ,D. De , A. Ayaz	EE	Spectrochimica Acta Part A, Elsevier	2017	ISSN: 1386-1425
12	Periodic control For cart-pendulum system with structured uncertainty	<b>Arindam Chakraborty</b> , Jayati Dey	EE	<u>Turkish Journal of Electrical Engineering and Computer Sciences</u> <u>25(1):140-154 · January 2017</u>	2017	ISSN : 1300-0632 / 1303-6203

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13	<i>Solving Multi-Objective OPF Problems Using Biogeography Based and Grey Wolf Optimization Techniques</i>	<b>Kingsuk Majumdar, Puja Das</b> , Provas Kumar Roy and Subrata Banerjee,	EE	<u>International Journal of Energy Optimization and Engineering (IJEQE)</u>	2017	ISSN : 2160-9500 / 2160-9543
14	Optimal design of power system stabilizer using hybrid biogeography based predator prey optimization technique	<b>Sourav Paul</b> , Provas kumar Roy	EE	International Journal of Power and Energy Conversion	2017	ISSN : 1757-1154
15	Dynamics of Solar Wind Speed: Cycle 23	<b>Tushnik. Sarkar, Mofazzal H. Khondekar, S. Banerjee</b>	EE AEIE	Advances in Space Research, Elsevier	2017	ISSN : 0273-1177
16	Short term hydro-wind-thermal scheduling based on particle swarm optimization technique	<b>Sumit Banerjee</b> , Koustav Dasgupta, Chandan Kumar Chanda	EE	International Journal of Electrical Power & Energy Systems	2016	ISSN NO : 0142-0615
17	Unified power flow controller based reactive power dispatch using oppositional krill herd algorithm	<b>Susanta Dutta</b> , Pranabesh Mukhopadhyay, Provas Kumar Roy, Debashis Nandi	EE	International Journal of Electrical Power & Energy Systems	2016	ISSN NO: 0142-0615
18	Optimal location of STATCOM using chemical reaction optimization for reactive power dispatch problem	<b>Susanta Dutta</b> , Provas Kumar Roy, Debashis Nandi	EE	Ain Shams Engineering Journal	2016	ISSN NO: 2090-4479
19	Optimal allocation of SSSC using chemical reaction optimization for reactive power dispatch	<b>Susanta Dutta</b> , Provas Kumar Roy, Debashis Nandi	EE	International Journal of Energy Optimization and Engineering (IJEQE)	2016	ISSN NO: 2160-9500 / 2160-9543

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20	Tuning of PID Controller for Realistic Load Frequency Control System using Chaotic Exponential PSO Algorithm	<b>Santigopal Pain</b> , Parimal Acharjee	EE	International Journal of Engineering and Technology	2016	ISSN (P): 2319-8613 ISSN (O): 0975-4024
21	Voltage Stability Index of Radial Distribution Networks by Considering Distributed Generator for Different Types of Loads	<b>Tapan Kumar Chattopadhyay, Sumit Banerjee</b> , Chandan Kumar Chanda	EE	International Journal of Energy Optimization and Engineering	2016	ISSN NO: 2160-9500
22	Voltage Stability Index of Radial Distribution Networks by Considering Distributed Generator for Different Types of Loads	<b>Tapan Kumar Chattopadhyay, Sumit Banerjee</b> , Chandan Kumar Chanda	EE	International Journal of Energy Optimization and Engineering	2016	SSN NO: 2160-9500
23	Oppositional krill herd algorithm for optimal location of capacitor with reconfiguration in radial distribution system	<b>Sneha Sultana</b> , Provas Kumar Roy	EE	International Journal of Electrical Power & Energy Systems	2016	0142-0615
24	Oppositional Krill Herd Algorithm for Optimal Location of Distributed Generator in Radial Distribution System	<b>Sneha Sultana</b> , Provas Kumar Roy	EE	International Journal of Electrical Power & Energy Systems	2015	ISSN: 0142-0615
25	Oppositional gravitational search algorithm for optimal location of distributed generator	<b>Sneha Sultana</b> , Provas Kumar Roy	EE	International Journal of Power and Energy Conversion	2015	Print ISSN: 1757-1154 Online ISSN: 1757-1162

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26	Optimal design of single machine power system stabilizer using chemical reaction optimization technique	<b>Sourav Paul</b> , Provas kumar Roy	EE	International Journal of Energy Optimization and Engineering	2015	ISSN NO: 2160-9500 / 2160-9543
27	Automatic generation control of interconnected power system using cuckoo optimization algorithm	Sanchari Laik, Shatabdi Dey, Puja Das, <b>Sneha Sultana</b> , <b>Sourav Paul</b> , Provas Kumar Roy	EE	International Journal of Energy Optimization and Engineering	2015	ISSN NO: 2160-9500 / 2160-9543
28	Transient stability constrained optimal power flow using teaching learning based optimization	Aparajita Mukherjee, <b>Sourav Paul</b> , Provas Kumar Roy	EE	International Journal of Energy Optimization and Engineering	2015	2160-9500 / 2160-9543