



**Asansol Engineering College**  
**Department of Electrical Engineering**  
**Publication Details**

Research Papers Published in Journals (International/National) during last five years (Jan 2017 to Till Date)								
Sl. No.	Name	Category (International/National)	Title	Name of the author/s	Name of journal	Year of publication	ISSN number	Link to article/paper/abstract of the article or DOI
1	Rudra Pratap Singh	International	Harris hawks optimization algorithm for model order reduction of interconnected wind turbines	Ranadip Roy, V. Mukherjee, Rudra Pratap Singh	ISA Transactions	2022	0019-0578	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0019057821005036">https://www.sciencedirect.com/science/article/abs/pii/S0019057821005036</a>
2	Mahendra Nandi	International	Load frequency stabilization of stand-alone hybrid distributed generation system using QOHS Algorithm	Shiva, C. K., Vedik, B., Mahapatra, S., Nandi, M., Raj, S., & Mukherjee, V	International Journal of Numerical Modelling: Electronic Networks, Devices, and Fields	2022	ISSN: 1099-1204	<a href="https://doi.org/10.1002/jnm.2998">https://doi.org/10.1002/jnm.2998</a>
3	Rudra Pratap Singh & Dharmbir Prasad	National	Application of SOS Algorithm for Solution of ORPD Problem	Prasad Dharmbir, Mukherjee V., Singh Rudra Pratap	Journal of The Institution of Engineers (India): Series B	2022	2250-2106	<a href="https://link.springer.com/article/10.1007/s40031-021-00700-8">https://link.springer.com/article/10.1007/s40031-021-00700-8</a>
4	Rudra Pratap Singh	International	Order reduction of proton exchange membrane fuel cell system using student psychology based optimization algorithm	Ranadip Roy, V. Mukherjee, Rudra Pratap Singh	International Journal of Hydrogen Energy	2021	0360-3199	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0360319921034893">https://www.sciencedirect.com/science/article/abs/pii/S0360319921034893</a>
5	Dharmbir Prasad	International	Temperature dependent optimal power flow using chaotic whale optimization algorithm	Prasad Dharmbir, Mukherjee Aparajita, Mukherjee Vivekananda	International Journal of Advanced Computing and Communication Systems (IJACCS)	2021	1468-0394	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/exsy.12685">https://onlinelibrary.wiley.com/doi/abs/10.1111/exsy.12685</a>
6	MANDAKINEE BANDYOPADH YAY	International	Modification of De' Sauty Bridge Network for Accurate Measurement of Process Variables by Variable Parameter Transducers	Mandakinee Bandyopadhyay; Snigdha Chowdhury Kolay; Subrata Chattopadhyay; Nirupama Mandal	IEEE Transactions on Instrumentation and Measurement	2021	Print ISSN: 0018-9456; Electronic ISSN: 1557-9662	<a href="https://ieeexplore.ieee.org/abstract/document/9360659">https://ieeexplore.ieee.org/abstract/document/9360659</a>
7	Dr. Mahendra Nandi	International	Moth-flame algorithm for TCSC-and SMES-based controller design in automatic generation control of a two-area multi-unit hydro-power system.	Nandi, M., Shiva, C. K., & Mukherjee, V.	Iranian Journal of Science and Technology, Transactions of Electrical Engineering,	2019	ISSN: 2364-1827	<a href="https://link.springer.com/article/10.1007/s40998-019-00297-1">https://link.springer.com/article/10.1007/s40998-019-00297-1</a>

8	RAJAN SARKAR	International	Real Time PC-Based Flow Measurement Technique Using Optical Channel as a Signal Transmitting Media	A.Ghosh, B.Kumar, R.Sarkar	IEEE Sensors Journal	2019	Print ISSN: 1530-437X; Electronic ISSN: 1558-1748; CD: 2379-9153	<a href="https://ieeexplore.ieee.org/abstract/document/9120002">https://ieeexplore.ieee.org/abstract/document/9120002</a>
9	RAJAN SARKAR	International	Design and Implementation of an RF-Based Wireless Displacement Transmitter	B.Mondal, R.Sarkar, N.Mandal	IEEE Sensors Journal	2019	Print ISSN: 1530-437X; Electronic ISSN: 1558-1748; CD: 2379-9153	<a href="https://ieeexplore.ieee.org/abstract/document/8868167">https://ieeexplore.ieee.org/abstract/document/8868167</a>
10	Dharmbir Prasad	International	Transmission Line Restoration using ERS Structure	Mukherjee Sushri, Chattaraj Sumana, Khan Md. Irfan, Prasad Dharmbir, Barua Pradip, Agarwal Harish	Advances in Science, Technology and Engineering Systems Journal	2019	2415-6698	<a href="https://www.astesj.com/v04/i05/p51/#:~:text=Emergency%20restoration%20structure%20(ERS)%20is,even%20after%20any%20natural%20disasters.">https://www.astesj.com/v04/i05/p51/#:~:text=Emergency%20restoration%20structure%20(ERS)%20is,even%20after%20any%20natural%20disasters.</a>
11	DR. RAJAN SARKAR	International	Design of an optical temperature transmitter for inflammable industry	N.Mandal, B.Mondal, R.Sarkar	IET Science, Measurement & Technology	2019		<a href="https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/iet-smt.2018.5100">https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/iet-smt.2018.5100</a>
12	MANDAKINEE BANDYOPADHYAY	International	Low-Cost System of Direct Measurement of Dissipation Factor for High-Voltage Electrical Machine	Mandakinee Bandyopadhyay; Subrata Chattopadhyay; Ganesh Roy; Nirupama Mandal; Satish Chandra Bera	IEEE Transactions on Instrumentation and Measurement	2019	Print ISSN: 0018-9456; Electronic ISSN: 1557-9662	<a href="https://ieeexplore.ieee.org/abstract/document/8713539">https://ieeexplore.ieee.org/abstract/document/8713539</a>
13	Kaushik Neogi & Agamani Chakraborty	International	A new approach for the stability analysis of high-frequency series resonant inverter-fitted induction heater	Kaushik Neogi, Moumita Sadhu, Niladri Das, Pradip Kumar Sadhu, Agamani Chakraborty, Ankur Ganguly, Atanu Banerjee	Ain Shams Engineering Journal (ASEJ)	2019	2090-4479	<a href="https://doi.org/10.1016/j.asej.2018.04.004">https://doi.org/10.1016/j.asej.2018.04.004</a>
14	Dr. Mahendra Nandi	International	A moth-flame optimization for UPFC-RFB-based load frequency stabilization of a realistic power system with various nonlinearities	Nandi, M. Shiva, C. K., & Mukherjee, V	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	2018	ISSN: 2364-1827	<a href="https://link.springer.com/article/10.1007/s40998-018-0157-2">https://link.springer.com/article/10.1007/s40998-018-0157-2</a>

15	Dr. Mahendra Nandi	International	Frequency stabilization of multi-area multi-source interconnected power system using TCSC and SMES mechanism.	Nandi, M., Shiva, C. K., & Mukherjee, V	Journal of Energy Storage	2017	ISSN: 2352-152X	<a href="https://doi.org/10.1016/j.est.2017.10.018">https://doi.org/10.1016/j.est.2017.10.018</a>
16	Dharmbir Prasad	International	Application of chaotic whale optimization algorithm for transient stability constrained optimal power flow	Prasad Dharmbir, Mukherjee Aparajita, Shankar Gauri, Mukherjee Vivekananda	IET Science, Measurement & Technology	2017	1751-8830	<a href="https://digital-library.theiet.org/content/journals/10.1049/iet-smt.2017.0015">https://digital-library.theiet.org/content/journals/10.1049/iet-smt.2017.0015</a>
17	Rudra Pratap Singh & Dharmbir Prasad	International	Development of Hexa Spacer Damper for 765 kV Transmission Lines' Vibration Damping	Mukherjee Sushri, Chattaraj Sumana, Khan Md. Irfan, Prasad Dharmbir, Singh RP., Khan Md. I., Agarwal Harish	Advances in Science, Technology and Engineering Systems Journal	2020	2415-6698	<a href="https://www.astesj.com/v06/i01/p51/">https://www.astesj.com/v06/i01/p51/</a>
18	D. Prasad	International	Application of chaotic krill herd algorithm for optimal power flow with direct current link placement problem	Prasad Dharmbir, Mukherjee Aparajita, Mukherjee V.	Chaos, Solitons and Fractals	2017	2590-0544	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0960077917302321">https://www.sciencedirect.com/science/article/abs/pii/S0960077917302321</a>
19	D. Prasad	International	Solution of Optimal Reactive Power Dispatch by Symbiotic Organism Search Algorithm Incorporating FACTS Devices	Prasad Dharmbir, Mukherjee Vivekananda	IETE Journal of Research	2017	0974-7338	<a href="https://www.tandfonline.com/doi/abs/10.1080/03772063.2017.1334600">https://www.tandfonline.com/doi/abs/10.1080/03772063.2017.1334600</a>
20	Rudra Pratap Singh & Dharmbir Prasad	International	Particle swarm optimization with an aging leader and challengers for optimal power flow problem	Prasad Dharmbir, Singh Rudra Pratap, Mukherjee Vivekananda	International Journal of Advanced Computing and Communication Systems (IJACCS)	2017	2347-9280	<a href="https://web.archive.org/web/20180421102145id_/http://www.ijaccs.com/Digital_Lib/Volume4_Issue1_July_2017/568_RudraPratapSingh.pdf">https://web.archive.org/web/20180421102145id_/http://www.ijaccs.com/Digital_Lib/Volume4_Issue1_July_2017/568_RudraPratapSingh.pdf</a>
21	Rudra Pratap Singh & Dharmbir Prasad	International	Adaptive Extended Kalman Filter for Ballistic Missile Tracking	G. Kumar, Prasad Dharmbir, Rudra Pratap Singh	International Journal of Electrical and Computer Engineering	2017	1307-6892	<a href="http://scholar.waset.org/1307-6892/10007418">http://scholar.waset.org/1307-6892/10007418</a>
22	Agamani Chakraborty	International	A new approach for the stability analysis of high-frequency series	Agamani Chakraborty, Debabrata Roy, Pradip Kumar Sadhu, Ankur Ganguly, Atanu Banerjee,	Journal of Power Technologies	2017	2083-4195	<a href="https://papers.itc.pw.edu.pl/index.php/JPT/article/view/875">https://papers.itc.pw.edu.pl/index.php/JPT/article/view/875</a>

Books and chapters in edited volumes/books published during last five years (Jan 2017 to Till Date)						
Sl. No.	Name	Title of the Book	Title of the Chapter/Paper	Year of Publication	ISBN/ISSN Number	Name of the Publisher
1	Rudra Pratap Singh & Dharmbir Prasad	Proceedings of the 3rd International Conference on Communication, Devices and Computing. Lecture Notes in Electrical Engineering, vol 851	Chapter-64: Study of Automatic Solar Power-Based Micro-Irrigation System	2022	978-981-16-9153-9	Springer, Singapore
2	Rudra Pratap Singh & Dharmbir Prasad	Proceedings of the 3rd International Conference on Communication, Devices and Computing. Lecture Notes in Electrical Engineering, vol 851	Chapter-52: Android Application for Effective Timing Management of Classes	2022	978-981-16-9153-9	Springer, Singapore
3	Rudra Pratap Singh & Dharmbir Prasad	Intelligent Data Mining and Analysis in Power and Energy Systems: Advances in models and applications as drivers for smarter efficient power systems	Chapter-9: Harmonic Dynamic Response Study of Overhead Transmission Lines	2022	in press	Wiley, New Jersey, USA
4	Rudra Pratap Singh & Dharmbir Prasad	Advances in Smart Grid Power System: Network, Control and Security	Chapter-5: Approaches to smartgrid network communication and security	2021	9.78013E+12	Academic Press, Cambridge, USA
5	Rudra Pratap Singh & Dharmbir Prasad	Role of IoT in Green Energy Systems	Chapter-9: MPPT-Based Solar Powered Water Pumping With RMS: Augmentation of IoE Technology	2021	9.7818E+12	IGI Global, Pennsylvania, USA
6	Sucharita Pal	Learning and Analytics In Intelligent systems	Intelligent Techniques and Applications In Science and Technology	2020	978-3-030-42362-9	Springer
7	DR. RAJAN SARKAR	Design, analysis and applications in Industry	Process Transducer- Design analysis and application in industry	2019	ISBN No. 978-620-2-06506-1	Lambert Academic Publishing
8	Dr. Apurba Chatterjee	Advances in Computer, Communication and Control	Transient Voltage Analysis of a Hybrid Power System Model by Using Novel Symbiosis Organism Search Algorithm	2019	ISSN 2367-3370/ISBN 978-981-13-3121-3	Springer Nature Singapore Pte Ltd.
9	Rudra Pratap Singh & Dharmbir Prasad	Advances in Computer, Communication and Control (Lecture Notes in Networks and Systems book series, volume 41)	Chapter-26: Optimal Reactive Power Dispatch Using Modified Differential Evolution Algorithm	2019	978-9811331213	Springer, Singapore

10	Rudra Pratap Singh & Dharmbir Prasad	Advances in Computer, Communication and Control (Lecture Notes in Networks and Systems book series, volume 41)	Chapter-44: Process Enhancement of Sparks Erosion Machining System Using FPGA	2019	978-9811331213	Springer, Singapore
11	Dharmbir Prasad	Advances in Computer, Communication and Control (Lecture Notes in Networks and Systems book series, volume 41)	Chapter-52: Kinematics Application: As a New Mechanical Cycle	2019	978-9811331213	Springer, Singapore
12	Dharmbir Prasad	Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering	Chapter-23: Whale Optimization Algorithm With Wavelet Mutation for the Solution of Optimal Power Flow Problem	2018	9781522547662	IGI Global, Pennsylvania, USA
13	Dharmbir Prasad	Handbook of Neural Computation	Chapter-17: Transient Stability Constrained Optimal Power Flow Using Chaotic Whale Optimization Algorithm	2017	978-0-12-811318-9	Academic Press, Cambridge, USA

**Papers published in national/ international conference proceedings during last five years (Jan 2017 to Till Date)**

Sl. No.	Name	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Dharmbir Prasad	Hybrid Powered Auto-irrigation System using Embedded Controller	3rd International Conference on ICT for Digital, Smart, and Sustainable Development, on March 24-25, 2022 at Jamia Hamdard (Deemed to be University), New Delhi, India	2022	NA	EAI CORE
2	Dharmbir Prasad	IoT enabled e-Bicycle: An ecofriendly solution to ease Local Mobility	3rd International Conference on ICT for Digital, Smart, and Sustainable Development, on March 24-25, 2022 at Jamia Hamdard (Deemed to be University), New Delhi, India	2022	NA	EAI CORE
3	Sucharita Pal	Design and simulation of modified multi-input interleaved boost converter for renewable resources	IEMRE2021	2021	978-1-6654-2939-9	IEEE Explore
4	Rudra Pratap Singh	Solution of optimal power flow problem of system with FACTS devices using MDE algorithm	3rd International Conference on Computer Applications & Information Security (ICCAIS) 19-21 March 2020, Riyadh, Saudi Arabia	2020	NA	IEEE
5	Dharmbir Prasad	Development of Quad Spacer Damper to suppress oscillation in 765 kV Transmission Line	11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) on Jul 1-3, 2020 at IIT Kharagapur, West Bengal, India	2020	NA	IEEE
6	MANDAKINEE BANDYOPADHYAY	Design and Development of SS Reversible Logic Gate and it's Application as Adder & Subtractor	International Conference on Inventive Computation Technologies (ICICT)	2020	Electronic ISBN:978-1-7281-4685-0; Print on Demand(PoD) ISBN:978-1-7281-	IEEE
7	Dharmbir Prasad	Finite Element Modeling of 400 kV ERS Bypass Transmission Line Quantifying Installation Difficulty	IEEE-PES GTD Grand International Conference & Exposition Asia 2019 from 19 <sup>th</sup> - 23 <sup>rd</sup> March, 2019 in Bangkok, Thailand	2019	NA	IEEE

8	Dharmbir Prasad	Reliability improvement of 400 kV transmission line using Quad Spacer Damper and Quad Rigid Spacer	Impact of Changing Energy Mix in the Power Sector (ICIEMPS-2019), 23rd & 24th November, 2019, Kolkata, India	2019	NA	IE(I)
9	Dharmbir Prasad	Power distribution line infrastructure consensus for Extra Low Voltage DC Microgrid: A comprehensive study	Impact of Changing Energy Mix in the Power Sector (ICIEMPS-2019), 23rd & 24th November, 2019, Kolkata, India	2019	NA	IE(I)
10	RAJAN SARKAR	Design of a real-time PC based automatic pressure controller and an optical pressure transmitter	IEEE 4th International Conference on Control, Automation and Robotics (ICCAR) Auckland, New Zealand.	2018	Electronic ISBN:978-1-5386-6338-7; USB ISBN:978-1-5386-6337-0; Print on Demand(PoD) ISBN:978-1-5386-6339-4	IEEE
11	MANDAKINEE BANDYOPADHYAY	PLC based flow control system using a motor operated valve	4th International Conference on Control, Automation and Robotics (ICCAR)	2018	Electronic ISBN:978-1-5386-6338-7; USB ISBN:978-1-5386-6337-0; Print on Demand(PoD) ISBN:978-1-5386-6339-4	IEEE
12	Rudra Pratap Singh	Modified differential evolution algorithm for optimal power flow with FACTS devices	2017 International Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE) on 17 <sup>th</sup> - 19 <sup>th</sup> August, 2017 at Bangalore, India	2017	NA	IEEE
13	Dharmbir Prasad	Development of single-sided linear induction motor with advanced regenerative braking system	9 <sup>th</sup> International Conference on Electrical Rotating Machines and Drives (ELROMA-2017), on 14 <sup>th</sup> - 15 <sup>th</sup> September, 2017 at Mumbai, India	2017	NA	IEEMA
14	Rudra Pratap Singh	Target tracking using adaptive Kalman Filter	2017 International Conference on Smart grids, Power and Advanced Control Engineering (ICSPACE) on 17 <sup>th</sup> - 19 <sup>th</sup> August, 2017 at Bangalore, India	2017	NA	IEEE
15	RAJAN SARKAR	Study of PID and FLC based water level control using ultrasonic level detector	IEEE International Conference on Computer, Electrical & Communication Engineering (ICCECE), Kolkata, India.	2017	Electronic ISBN:978-1-5090-4432-0; Print on Demand(PoD) ISBN:978-1-5090-4433-7	IEEE