

Publication Details

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International Journal outside SVU							
Sl. No.	Title of the Paper	Author(s)	Published by	Indexing	Year of Publication	DOI	Impact Factor
1.	Performance Improvement of Three-Phase AFE Rectifier During Switching of Loads with Fractional Feedback Current Control	A. Mitra, S. Das, S. Bhowmik and S. Chowdhuri	Sāadhanā by Indian Academy of Science, Springer	SCIE	2024	10.1007/s12046-024-02539-3	1.6

International Conference outside SVU								
Sl. No.	Name of the Conference	Organised by	Title of the Paper	Author(s)	Published by	Year of Publication	DOI	ISBN No.
1.	3 rd International Conference on Control, Instrumentation, Energy & Communication (CIEC)	Department of Applied Physics, University of Calcutta, India and IEEE Joint Control Systems Society and Instrumentation & Measurement Society (CSS-IMS), Kolkata Chapter	Analysis of Active Power Transfer to Grid from a Specific EV - A V2G Technology	S. Bhowmik , S. Chowdhury and A. Mitra	IEEE	2024	10.1109/CIEC59440.2024.10468540	Electronic ISBN: 979-8-3503- 1370-3 Print on Demand (PoD) ISBN: 979-8-3503-1371-0

2.	3 rd International Conference on Control, Instrumentation, Energy & Communication (CIEC)	Department of Applied Physics, University of Calcutta, India and IEEE Joint Control Systems Society and Instrumentation & Measurement Society (CSS-IMS), Kolkata Chapter	V/f Control of PMSM Drive fed from PR Current Controller Based Single-Phase AFE Rectifier	A. Mitra, S. Bhowmik and S. Chowdhury	IEEE	2024	10.1109/CIEC59440.2024.10468398	Electronic ISBN: 979-8-3503-1370-3, Print on Demand (PoD) ISBN: 979-8-3503-1371-0
3.	International Conference on Energy, Systems, Drives, Power Electronics, Measurement & Sensors (ESDPEMS 2K23)	Department of Electrical Engineering, Narula Institute of Technology (IEEE PES Student Chapter)	Design of PID Controller for Separately Excited DC Motor and Its Performance Analysis	S. Bhowmik and A. Mitra	Ideal International E-Publication	2023	-	ISBN: 978-93-89817-95-9
4.	2 nd IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON)	IEEE EDS Kolkata Chapter	Performance Comparison and Design of Passive Components for DC-DC Buck-Boost, Cuk and Sepic Converter	A. Mitra, S. Bhowmik , S. Mukherjee, P. Dutta, K. Banerjee and S. Sarkar	IEEE	2022	10.1109/EDKCON5622.1.2022.10032936	Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7
5.	2 nd IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON)	IEEE EDS Kolkata Chapter	Performance Comparison between PI based Control and Model Predictive Control of Voltage Source Inverter under Load Variations	S. Bhowmik , P. K. Gayen and A. Mitra	IEEE	2022	10.1109/EDKCON5622.1.2022.10032916	Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7
6.	2 nd IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON)	IEEE EDS Kolkata Chapter	Design and Performance Analysis of DC-DC Sepic Converter for Specific Input Range	S. Bhowmik , A. Mitra, S. Sarkar, S. Mukherjee, K. Banerjee and P. Dutta	IEEE	2022	10.1109/EDKCON5622.1.2022.10032921	Electronic ISBN: 978-1-6654-7205-0, Print on Demand (PoD) ISBN: 978-1-6654-7206-7

7.	2 nd IEEE International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC)	Department of Electrical Engineering GLA University and IEEE UP Section	Analysis of Series Load Resonant (SLR) DC–DC Converter under Different Modes of Operation	A. Mitra, S. Bhowmik and P. B. Deb	IEEE	2022	10.1109/PARC52418.2 022.9726544	Electronic ISBN: 978-1-6654-3215-3, DVD ISBN: 978-1-6654-3214-6, Print on Demand (PoD) ISBN: 978-1-6654-3216-0
8.	2 nd IEEE International Conference on Computational Performance Evaluation (ComPE)	Department of Biomedical Engineering School of Technology North-Eastern Hill University and IEEE IAS	Effect of Load Switching on Induced e.m.f. of a Transformer	S. Bhowmik , A. Mitra and P. B. Deb	IEEE	2021	10.1109/ComPE53109. 2021.9752120	Electronic ISBN: 978-1-6654-3656-4, Print on Demand (PoD) ISBN: 978-1-6654-3657-1
9.	13 th IEEE PES Asia Pacific Power & Energy Engineering Conference (APPEEC)	Power & Energy Society (IEEE PES) Chapter IEEE Kerala Section	Measurement of Real Time Energy Consumption using Low-Cost High-Speed Microcontroller	S. Bhowmik , S. Karmakar, J. Das, A. Mitra, B. Halder and S. Mukherjee	IEEE	2021	10.1109/APPEEC5084 4.2021.9687750	Electronic ISBN: 978-1-6654-4878-9, Print on Demand (PoD) ISBN: 978-1-6654-4879-6

National Conference outside SVU

Sl. No.	Name of the Conference	Organised by	Title of the Paper	Author(s)	Published by	Year of Publication	DOI	ISBN No.
1.	2 nd National Conference on Science, Technology and Communication Skills (NCSTCS 2K19)	Narula Institute of Technology	Cluster formation of HRV in AF patients: a comparison with normal people	S. Bhowmik , D. P. Goswami, and D. Dey	Ideal International E-Publication	2019	-	ISBN: 978-93-86675-98-9
2.	2 nd National Conference on Environmental Sustainability, Water Resource and Management (ESWRM 2K19)	Narula Institute of Technology	Water Treatment – Principles and Procedure For Next Generation Desalination Technology	S. Bhowmik , S. Pal, and D. Dey	Ideal International E-Publication	2019	-	ISBN: 978-93-89817-19-5

Book Chapter outside SVU

Sl. No.	Name of the Book	Title of the Chapter	Author(s)	Published by	Year of Publication	DOI	ISBN No.
1.	Emerging Technology & Management Trends in Environment and Sustainability	Solar Tracking System to Harvest Photovoltaic Energy with Higher Efficiency	I. Bose, A. Mitra, S. Mukherjee and S. Bhowmik	CRC Press, Taylor & Francis Group	2023	https://doi.org/10.4324/9781003356233	ISBN: 978-1-032-41095-1 (pbk), ISBN: 978-1-003-35623-3 (ebk)
2.	Power Converters, Drives and Controls For Sustainable Operations	Performance Analysis of Series Load Resonant (SLR) DC–DC Converter	A. Mitra, S. Bhowmik , A. Halder, S. Karmakar and T. Paul	Scrivener Publishing, WILEY	2023	https://doi.org/10.1002/9781119792918.ch5	ISBN 978-11-19791-91-1
3.	Advances in Electrical Engineering	Recent Advancements in Power Electronics	Arkendu Mitra, Subhra Mukherjee, Pallav Dutta and Sujoy Bhowmik	AkiNik Publications	2024	-	ISBN: 978-93-6135-603-2
4.	Advances in Electrical Engineering	Different Types of Solar Photovoltaic Cells along with Recent Developments in Perovskite Materials	Subhra Mukherjee, Arkendu Mitra, Kamalika Banerjee and Sujoy Bhowmik	AkiNik Publications	2024	-	ISBN: 978-93-6135-603-2

International Conference on SVU

Sl. No.	Name of the Conference	Organised by	Title of the Paper	Author(s)	Published by	Year of Publication	DOI	ISBN No.
1.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	A Robust Tuning Method of PI Controller with Desired Damping Coefficient for a First-order Lag Plus Deadtime System	Sujoy Bhowmik* , Avik Datta, Rituparna Mitra, Suvraujjal Dutta, Arunima Mahapatra	CRC Press, Taylor & Francis	Accepted	-	-
2.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Modeling and Simulation of Three-Phase Voltage Source Inverter Using a Model Predictive Current Control	Sujoy Bhowmik* , Rituparna Mukherjee, Titas Kumar Nag, Promit Kumar Saha, Sushmita Dhar Mukherjee	CRC Press, Taylor & Francis	Accepted	-	ISBN: 978-93-5834-625-1
3.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Performance Analysis of a Three-phase Cascaded H-Bridge Multilevel Inverter	Sujoy Bhowmik* , Promit Kumar Saha, Rituparna Mitra, Suvraujjal Dutta, Avik Datta	CRC Press, Taylor & Francis	Accepted	DOI:10.1201/9781003596745	ISBN: 978-10-3298-036-2
4.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Utilisation of Transient Earth Voltage in the Partial Discharge of Power Transformer	Sujoy Bhowmik* , Sushmita Dhar Mukherjee, Rituparna Mukherjee, Arunima Mahapatra, Suvraujjal Dutta	CRC Press, Taylor & Francis	Accepted	DOI:10.1201/9781003596745	ISBN: 978-10-3298-036-2
5.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Performance Study of Series Resonant Converter Using Zero Voltage Switching	Sujoy Bhowmik* , Avik Datta, Titas Kumar Nag, Rituparna Mitra, Promit Kumar Saha	CRC Press, Taylor & Francis	Accepted	-	-
6.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Analysing business cases for the integration of the electric car market using cost-utility analysis	Avik Datta, Susmita Dhar Mukherjee, Arunima Mahapatra, Sujoy Bhowmik	CRC Press, Taylor & Francis	Accepted	-	-

7.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	An overview on reactive power supervision in deregulated energy markets	Rituparna Mitra, Sujoy Bhowmik , Subhraujjal Dutta, Aritras Chakraborty	CRC Press, Taylor & Francis	Accepted	-	-
8.	2 nd International Conference On Engineering Design And Computing (ICEDC)-2024	Swami Vivekananda University	Overview of electricity markets and opportunities for distributed and renewable energy sources to participate in the market	Rituparna Mitra, Arunima Mahapatra, Sujoy Bhowmik , Subhraujjal Dutta	CRC Press, Taylor & Francis	Accepted	-	-
9.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Review – Solar Power in India Present Scenario, Challenges and Opportunities	Sujoy Bhowmik* , Avik Datta, Rituparna Mitra, Suryendu Dasgupta, Arunima Mahapatra	-	Accepted	-	-
10.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Conceptual Review on Electrical Power Generation	Sujoy Bhowmik* , Suryendu Dasgupta, Avik Datta, Suvraujjal Dutta, Rituparna Mukherjee	-	Accepted	-	-
11.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Review on Microgrid Technology	Sujoy Bhowmik* , Susmita Dhar Mukherjee, Arunima Mahapatra, Rituparna Mitra, Suvraujjal Dutta	-	Accepted	-	-
12.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Introduction to Machine Learning	Sujoy Bhowmik* , Rituparna Mukherjee, Rituparna Mitra, Avik Datta, Susmita Dhar Mukherjee	-	Accepted	-	-
13.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	An Analytical Study of Power System under the Fault Conditions using different Methods of Fault Analysis	Sujoy Bhowmik* , Rituparna Mitra, Suryendu Dasgupta, Avik Datta	-	Accepted	-	-

14.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Review of Applications of High Voltage	Suryendu Dasgupta* ,Avik Datta, Rituparna Mitra, Sujoy Bhowmik	-	Accepted	-	-
15.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Review of Partial Discharge Tests Pertaining to DC Applications	Suryendu Dasgupta* ,Rituparna Mitra, Avik Datta, Sujoy Bhowmik	-	Accepted	-	-
16.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	An Examination of Techniques for Partial Discharge Detection and Diagnosis in High Voltage Power Cables	Suryendu Dasgupta*, Avik Datta, Rituparna Mitra, Sujoy Bhowmik	-	Accepted	-	-
17.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	An Examination of the Aging Effectiveness of Polyethylene Insulation Materials Cross-linked with Direct Current monitoring employed in high-voltage equipment	Suryendu Dasgupta*, Avik Datta, Sujoy Bhowmik , Rituparna Mitra	-	Accepted	-	-
18.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Examining the methods for partial discharge monitoring employed in high-voltage equipment	Suryendu Dasgupta*, Sujoy Bhowmik , Rituparna Mitra, Avik Datta	-	Accepted	-	-
19.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Thorough Survey on Power Market Cost and Burden Forecasting Using Wind Power	Avik Datta, Rituparna Mitra, Sujoy Bhowmik , Suryendu Dasgupta, Rituparna Mukherjee, Titas Kumar Nag	-	Accepted	-	-
20.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Adversarial Deep Learning Techniques Targeting Power System State Estimation	Suvraujjal Dutta*, Sujoy Bhowmik , Rituparna Mitra, Suryendu Dasgupta	-	Accepted	-	-

21.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	PMU Based Real Time Power System State Estimation using ePHASORsim	Suvrajjal Dutta*, Sujoy Bhowmik , Rituparna Mitra, Suryendu Dasgupta	-	Accepted	-	-
22.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Dynamic State Estimation in Power Systems Using Kalman Filters	Suvrajjal Dutta, Sujoy Bhowmik , Titas Kumar Nag, Suryendu Dasgupta	-	Accepted	-	-
23.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Review on Research trends on electric vehicles	Susmita Dhar Mukherjee, Rituparna Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujoy Bhowmik , Arunima Mahapatra	-	Accepted	doi.org/10.22271/ed.bo ok.2863	ISBN: 978-93-6135-058-0
24.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Power System And Faults: A Review	Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujoy Bhowmik , Arunima Mahapatra	-	Accepted	-	ISBN: 978-93-5834-625-1
25.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	A Review on Fault Detection on DC Microgrid	Rituparna Mukherjee, Susmita Dhar Mukherjee, Abhishek Dhar, Promit Kumar Saha, Sujoy Bhowmik , Arunima Mahapatra	-	Accepted	-	ISBN: 978-93-5834-625-1
26.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Advancements and Challenges in Tidal Energy: A Comprehensive Study	Arunima Mahapatra*, Rituparna Mukherjee, Suvrajjal Dutta, Sujoy Bhowmik	-	Accepted	-	-
27.	2 nd International Conference On Integrative Science And Engineering (ICISE 2024)	Swami Vivekananda University	Extensive Study on Magnetohydrodynamics (MHD): Fundamentals, Technologies, Applications, and Future Prospects	Arunima Mahapatra*, Sujoy Bhowmik , Suvrajjal Dutta, Rituparna Mukherjee	-	Accepted	-	-

Book Chapter on SVU

Sl. No.	Name of the Book	Title of the Chapter	Author(s)	Published by	Year of Publication	DOI	ISBN No.
1.	Electrical Engineering Developments in Recent Years	Recent Advancements in Power Electronics	Sujoy Bhowmik	SVU	2024	-	ISBN: 978-93-340-1849-3
2.	Future Energy Resources	Overview of Solar Energy for Sustainable Development	Sujoy Bhowmik	SVU	2024	-	ISBN: 978-93-340-6874-0