

# **CURRICULUM VITAE**

**1. Name:** Dr. Chandan Kumar Chanda

**2. Designation:** Professor (HAG)  
Department of Electrical Engineering  
Indian Institute of Engineering Science and Technology,  
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(An Institute of National Importance, Govt. of India)



**3. Date of Birth:** 27<sup>th</sup> October, 1960

**4. a) Nationality:** Indian  
**b) Religion:** Hinduism

**5. Contacts:**

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**6. Academic profile:**

Name of the Degree	Board/University	Division/Class	Year of Passing
Ph.D. (Engineering)	IEST, Shibpur (Formerly known as BE College)	Awarded	2003
M. Tech in Electrical Engineering	IIT, Kharagpur	1 <sup>st</sup> Class	1988
B. E. in Electrical Engineering	NIT, Durgapur (Formerly known as RE College, Durgapur)	1 <sup>st</sup> Class with Honors University Ranker	1983

**7. Professional Career: [Total Experience: More than 39 years]**

**a) Teaching and Research: More than 35 years**

Sl. No.	Name of The Organization/College/University	Present Position	No. of Years	Period
1.	Department of Electrical Engineering, Indian Institute of Engineering Science and	Professor (HAG)	33	4 <sup>th</sup> April 1991 - continuing

Sl. No.	Name of The Organization/College/University	Present Position	No. of Years	Period
	Technology, Shibpur (Formerly BESU / B.E. College), an institution of national importance, under MHRD, Govt. of India			
2.	Department of Electrical Engineering, National Institute of Technology, Durgapur (Formerly R.E. College), an institution of national importance, under MHRD, Govt. of India	Lecturer	2	27 <sup>th</sup> February 1989 – 3 <sup>rd</sup> April 1991

**b) Industrial: 4 years 9 months**

Sl. No.	Name of The Organisation/ College/ University	Position Held	No. of Years	Period
1.	Durgapur Steel Plant (SAIL)	Assistant Manager	4 years 9 months	6 <sup>th</sup> June 1984 – 15 <sup>th</sup> February 1989

### 8. Administrative Experience:

1. Professor-in-Charge of Admission of IEST, Shibpur.
2. Professor-in-Charge of Examination of IEST, Shibpur
3. Member of Senate, Member of Senate Standing Committee, IEST, Shibpur.
4. Member of Fire Committee, and member of re designation of non-faculty staffs Committee and Academic Coordinator, Training and Placement-in-charge of EE Dept. etc in IEST, Shibpur.
5. Ex-Chairman of SPGC and Present Member of SPGC, IEST, Shibpur
6. Former Chairman of Electrical Engineering Society, IEST, Shibpur.
7. Faculty council Member of Jadavpur University, Kolkata, Management council member of Burdwan University, Member of Tender Committee in Burdwan University, Kalyani University, and Burdwan University.
8. University Council member of Diamond Harbour Women's University.

### 9. Sponsored Projects Undertaken:

Sl. No.	Sponsoring Agency	Title of the Project(s)	Period	Amount	Status	Role
1	UGC	Investigation on tieline control and voltage instability of power grids in power systems of Developing Countries	2001, 3 years	Rs. 3.83 lakh	Completed (UC Submitted)	Co-PI
2	DST-SERB	Applications of Magnetostriction in Energy Harvesting	2019, 3 years	Rs. 58 lakh	Completed	Co-PI

Sl. No.	Sponsoring Agency	Title of the Project(s)	Period	Amount	Status	Role
3	DST-SERI	Going Remote - Solar Energy for lighting and Hygienic Sanitation with Smart Exhaust System for Rural Applications	2021, 3 years	Rs. 1.43 crore	Ongoing	Co-PI

## 10. Research Publications: Total: 168 (64 Journals and 104 Conferences)

### a) List of Journal Papers:

Sl. No.	Title of Paper(s)	Name of the Author(s)	Name of Journal(s)
1	Reliability analysis of PV array or modules with supercapacitor based measurement techniques	Debashis Majumdar, Sudipta Basu Pal, Rajiv Ganguly, Konika Das Bhattacharya, C. K. Chanda	Microsystem Technologies 2024
2	Enhancing the capacity utilization of existing distribution networks using series capacitors in remote rural areas	Moumita Pramanik, Konika Das Bhattacharya, C. K. Chanda	Microsystem Technologies 2023
3	Analysis of permanent magnet fault current limiter considering faults occurring at various position of a rectifier circuit load	S Das, AB Choudhury, T Santra, C. K. Chanda	Microsystem Technologies 2023
4	Design of solar battery swapping station for EV using LSTM-assisted solar power forecasting	SK Chawrasia, D Hembram, D Bose, C. K. Chanda	Microsystem Technologies 2023
5	Design and analysis of solar hybrid battery swapping station	Sandeep Kumar Chawrasia, C. K. Chanda	International Journal of Emerging Electric Power Systems 2023
6	Multiple-Classification of Power System States Using Multidimensional Neural Network	Shubhranshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	Journal of The Institution of Engineers (India): Series B, 2023
7	Physics based modeling of dust accumulation on a bifacial solar PV module for generation loss estimation due to soiling	Saheli Sengupta, C. K. Chanda, Hiranmay Saha, Samarjit Sengupta	Solar Energy Advances Vol.03, 2023
8	Performance study of Amorphous-Si thin-film solar cell for the recent application in photovoltaics	Subhasri Kar, Sumit Banerjee, C. K. Chanda	Materials Today: Proceedings vol.80, 2023
9	Performance analysis of a grid-connected microgrid system under fault condition	Suman Ghosh, C. K. Chanda, JK Das	Microsystem Technologies vol.28(12), 2022
10	In-Wheel Motor Design with Thermal and Mechanical Model Analysis for Electric Bikes.	Sandeep Kumar Chawrasia, Aakash Das, C. K. Chanda	International Journal of Performability Engineering vol.18(9), 2022
11	On-road estimation of state of charge of lithium-ion battery by extended and dual extended Kalman filter considering sensor bias	Himadri Sekhar Bhattacharyya, Amalendu Bikash Choudhury, C. K. Chanda	International Journal of Energy Research vol.46(11), 2022
12	Modelling and Performance Evaluation of MPPT-based PMSG Wind Energy Conversion System with Different Interfaces in Matlab/Simulink Environment.	Snehashis Ghoshal, Sumit Banerjee, C. K. Chanda	International Journal of Performability Engineering, vol.18(1), 2022

<b>Sl. No.</b>	<b>Title of Paper(s)</b>	<b>Name of the Author(s)</b>	<b>Name of Journal(s)</b>
13	Modelling and Performance Evaluation of MPPT-based Solar PV System with Different Interfaces in MATLAB/Simulink Environment.	Snehashis Ghoshal, Sumit Banerjee, C. K. Chanda	International Journal of Performability Engineering, vol. 17(12), 2021
14	Blockchain insisted resilience enhancement of power electricity markets using distributed energy trading	Dipanjan Bose, C. K. Chanda, Abhijit Chakrabarti	International Journal of Emerging Electric Power Systems, 2021
15	Voltage Profile Management and Power Loss Minimization in a Real-Valued Conventional Grid-Connected Microgrid System with the help of Optimally placed PMUs	Suman Ghosh, C. K. Chanda, JK Das	Journal of The Institution of Engineers (India): Series B, pp.1-13, 2021
16	Effect of parasitic resistances on CdTe solar cell and validation with datasheet of FS-6450A in Matlab/Simulink	S Kar, S Banerjee, C. K. Chanda	Journal of Physics: Conference Series, vol. 2070(1), pp. 012106, 2021
17	Analysis of Smart Grid Voltage Stability with Integration of Demand Load Variation in Smart Energy Network	Shouvik Kumar Samanta, C. K. Chanda	Journal of The Institution of Engineers (India): Series B, pp.1-10, 2021
18	State-of-Health Estimation and End of Life Prediction for the Lithium-Ion Battery by Correlatable Feature-based Machine Learning Approach.	Himadri Sekhar Bhattacharyya, Sindhu Seethamraju, Amalendu Bikash Choudhury, C. K. Chanda	International Journal of Performability Engineering, vol. 17(9), 2021
19	Modeling the Effect of Relative Humidity and Precipitation on Photovoltaic Dust Accumulation Processes	Saheli Sengupta, Samarjit Sengupta, C. K. Chanda, Hiranmay Saha	IEEE Journal of Photovoltaics, vol. 11(4), pp. 1069-1077, 2021
20	Model Based Generation Prediction of SPV Power Plant Due to Weather Stressed Soiling	Saheli Sengupta, Aritra Ghosh, Tapas K Mallick, C. K. Chanda, Hiranmay Saha, Indrajit Bose, Joydip Jana, Samarjit Sengupta	Energies, vol. 14(17), pp. 5305.
21	Economic dispatch solution considering prohibited zone & ramp rate limits assisted by mine blast & modified bbo algorithm	Deblina Maity, Sumit Banerjee, C. K. Chanda	International Journal of Electrical Engineering (IJEE), pp. 197-208, vol. 27(5), 2020
22	Vulnerability assessment of a power transmission network employing complex network theory in a resilience framework	Dipanjan Bose, C. K. Chanda and Abhijit Chakrabarti	Microsystem Technologies, 26, 2433-2451 (2020).
23	Placement of Phasor Measurement Unit For Complete Observability of an Isolated Microgrid System	Suman Ghosh, J. K. Das, C. K. Chanda	Microsystem Technologies, pp. 1-4, March 2019, Springer
24	Bare Bones Teaching Learning Based Optimization Technique for Economic Emission Load Dispatch Problem Considering Transmission Losses	Deblina Maity, Sumit Banerjee, C. K. Chanda	Iranian Journal of Science and Technology Transactions of Electrical Engineering, pp. 77-90, vol. 43(1), 2018
25	Enhancement of Network Resiliency in a Power Distribution Network Employing Distributed Generation	Tamalika Chowdhury, A. Chakrabarti and C. K. Chanda	Journal of Electrical Systems 14, no. 1 (2018): 60-71.
26	Implication of DG Incorporation in Criticality Assessment of Power Network Buses Using Betweenness Metric	Tamalika Chowdhury, C. K. Chanda, and A. Chakrabarti	International Journal of Electrical Energy, vol. 5 no. 1(June 2017), 76- 80.
27	Population variant differential evolution-based multiobjective economic emission load dispatch	R Swain, P Sarkar, K C Meher, C. K. Chanda	International Transactions on Electrical Energy Systems, vol. 27(10), e2378, 2017

<b>Sl. No.</b>	<b>Title of Paper(s)</b>	<b>Name of the Author(s)</b>	<b>Name of Journal(s)</b>
28	A Comparative Study of Improved Teaching Learning Based Optimization Technique on Economic Load Dispatch Problem with Generator Constraints	Sumit Banerjee, Deblina Maity, C. K. Chanda	International Journal of Energy Optimization and Engineering (IJEQE), pp. 1-25, vol. 5(2/4), 2019
29	Betweenness as a Tool of Vulnerability Analysis of Power System	G K Rout, T Chowdhury, C. K. Chanda	Journal of The Institution of Engineers (India), pp. 463-468, vol. 97(4)
30	An Analytical Approach for Allocation and Sizing of Distributed Generations in Radial Distribution Network	P Kayal, S Chanda, C. K. Chanda	International Transactions on Electrical Energy Systems, pp.1-9, vol.27(7), 2016
31	Strategic approach for reinforcement of intermittent renewable energy sources and capacitor bank for sustainable electric power distribution system	P Kayal, C K Chanda	International Journal of Electrical Power & Energy Systems, pp.335-351, vol.83, 2016
32	Short term hydro-wind-thermal scheduling based on particle swarm optimization technique	Sumit Banerjee, Koustav Dasgupta, C. K. Chanda	International Journal of Electrical Power & Energy Systems, pp. 275-288, vol. 81, 2016
33	Optimal Allocation of Distribution Generator in a Radial-Distribution System Using Self Adaptive Modified Firefly Algorithm with Voltage, Power and Line capacity limit Constraints	Sanjoy Kumar Saha, Sumit Banerjee, C. K. Chanda	International Journal of Power and Energy Conversion, pp. 148-164, vol. 6(2), 2015
34	Determination of Optimal Location and Sizing of Distributed Generator in Radial Distribution Systems for Different Types of Load	Sanjoy Kumar Saha, Sumit Banerjee, C. K. Chanda	AMSE, Modelling, Measurement and Control, Series A: General Physics and Electrical Applications, pp. 1-23, vol. 86(2), 2015
35	Kruskal's Maximal Spanning Tree Algorithm for Optimizing Distribution Network Topology to Improve Voltage Stability	D Sarkar, A De, C. K. Chanda, S Goswami	Electric Power Components and Systems, pp.1921-1930, vol. 43(17), 2015
36	A multi-objective approach to integrate solar and wind energy sources with electrical distribution network	P Kayal, C. K. Chanda	Solar Energy, pp.397-410, vol.112, 2015
37	Optimal Mix of Solar and Wind Distributed Generations Considering Performance Improvement of Electrical Distribution Network	P Kayal, C. K. Chanda	Renewable energy, pp. 173-186, vol. 75, 2015
38	Teaching Learning Based Optimization for Economic Load Dispatch Problem Considering Valve Point Loading Effect	Sumit Banerjee, Deblina Maity, C. K. Chanda	International Journal of Electrical Power & Energy Systems, pp. 456-464, vol. 73, 2015
39	Voltage Stability of Radial Distribution Networks for Different Types of Loads	Sumit Banerjee, Debapriya Das, C. K. Chanda	International Journal of Power and Energy Conversion, pp.70-87, vol. 5(1), 2014
40	A Simple and Fast Approach for Allocation and Size Evaluation of Distributed Generation	Partha Kayal and C. K. Chanda	International Journal of Energy and Environmental Engineering, pp. 1-9, 2013
41	Placement of Wind and Solar Based DGs in Distribution System for Power Loss Minimization and Voltage Stability Improvement	Partha Kayal, C. K. Chanda	Int. Journal of Electrical Power and Energy System, pp.795-809, vol. 53, 2013
42	Reconfiguration of Distribution Networks based on Fuzzy Multiobjective Approach by considering Loads of Different Types	Sumit Banerjee, C. K. Chanda, Debapriya Das	Journal of The Institution of Engineers (India): Series B, pp.29-42, vol. 94(1), 2013

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43	A Simple Approach on Voltage Stability Index of Distribution System for Loads of Different Types	Tapan Kumar Chattopadhyay, Sumit Banerjee, C. K. Chanda	International Review of Electrical Engineering (IREE), pp. 1002-1011, vol. 9(5), 2014
44	De-Noising of Segmented MR Images using Wavelet Shrinkage via Peaks Over Threshold	C. K. Chanda , Arunava De, Anup Kumar Bhattacharjee, Bansibadan Maji	The Bulletin of Engineering and Science, pp.18-21, vol. 4(1), 2012
45	A Forward Search Method Based Network Expansion Planning	Partha Kayal, Sayan Bhattacharya, C. K. Chanda	Int. Journal of Applied Engineering Research, pp. 1306-1311, vol. 7(11), 2012
46	Efficient Distribution System Realization Using Equivalent Voltage Stability Indicator	Partha Kayal, C. K. Chanda, Tamal Dutta	IACSIT International Journal of Engineering and Technology, pp.270-274, vol. 4(3), 2012
47	Entropy Maximization, Stationary Wavelet and DCT based Segmentation ,De-noising and Progressive Transmission Technique for Diseased MRI Images	Arunava De, Anup Kumar Bhattacharjee, C. K. Chanda, Bansibadan Maji	Applied Mechanics and Materials, pp.229- 234, vol. 197, 2012
48	Determination of Voltage Stability in Distribution Network Using ANN Technique	Partha Kayal, Sayansom Chanda, C. K. Chanda	International Journal on Electrical Engineering and Informatics, pp.347-360, vol. 4, 2012
49	Hybrid Particle Swarm Optimization with Wavelet Mutation based Segmentation and Progressive Transmission Technique for MRI Images	Arunava De, Anup Kumar Bhattacharjee, C. K. Chanda and Bansibadan Maji	International Journal of Innovative Computing, Information and Control, pp. 5179-5197, vol. 8(7), 2012
50	An Entropy Maximization based technique for Progressive Transmission of MRI Images	C. K. Chanda, Arunava De, Anup Kumar Bhattacharjee, Bansibadan Maji	International Journal of Computer Science and Network Security, pp. 159-164, vol. 11(4), 2011
51	A Unique VSI in Global Voltage Stability Analysis using Equivalent Two-Bus Technique	C. K. Chanda and Partha Kayal	Journal of The Institution of Engineers (India), pp.11-15, vol. 92, 2011
52	Improvement of Voltage Stability Margin in a Reconfigured Radial Power Network using Graph Theory	C. K. Chanda, Dipu Sarkar, Abhinandan De, A.K.Mukhopahyay, Sanjoy Goswami	Canadian Journal on Electrical and Electronics Engineering, pp. 454-462, vol. 2(9), 2011
53	ANN based Online Voltage Stability Monitoring for Distribution feeder Reconfiguration	Dipu Sarkar , Abhinandan De , C. K. Chanda	International journal of Electrical Engineering, pp.231-240, vol. 3(3A), 2010
54	Planning of renewable dgs for distribution network considering load model: a multi-objective approach	Partha Kayal, Tanushree Bhattacharjee, C. K. Chanda	Energy Procedia, pp.85-96, vol. 54, 2014
55	Entropy maximization based segmentation, transmission and wavelet fusion of mri images	Arunava De, Anup Kumar Bhattacharjee, C. K. Chanda, Bansibadan Maji	International journal of hybrid intelligent systems, pp. 57-69, vol. 10(2), 2013
56	Future scope analysis of distributed generation in Deregulated indian power market	Avishek Ghose Roy, C. K. Chanda, Swarnankur Ghosh, Indrajit Koley	International Journal of Engineering Research and Development, pp. 1-8, vol. 10(7), 2014
57	Development of a unique network equivalencing technique for determining voltage stable states in a multi-bus longitudinal power system using load flow analysis	Dr. A. Chakrabarti, S. Dey, C. K. Chanda	Journal of Electrical Engineering, The Institution of Engineers (India), vol 85, pp.196 - 202, March'2005

Sl. No.	Title of Paper(s)	Name of the Author(s)	Name of Journal(s)
58	Development of a global voltage security indicator and role of svc on it in longitudinal power supply (LPS) systems.	S. Dey, C. K. Chanda and Dr. A. Chakrabarti	Journal of the Electric Power System Research, Elsevier, vol. 68, 2004
59	Determination of bus security governed by sensitivity indicator in a reactive power constraint longitudinal power supply (LPS) system	Chanda, C.K., Dey, S., Chakrabarti, A., Mukhopadhyay, A.K.	India Journal of Engineering and Material Sciences, vol. 9, pp. 260-264, Aug.'2002
60	Effects of corrective measures on dynamic voltage collapse of longitudinal power supply systems	Chakrabarti, A., Mukhopadhyay, A.K., Day, S., Chanda, C.K.	Journal of the Institution of Engineers (India), Vol. 82, pp. 262-267 March, 2002
61	Effects of load composition on dynamic and steady state voltage stability in a longitudinal AC power transmission system	Chakrabarti, A., Chanda, C.K., Panda, G.	Journal of Modelling, Simulation and Control, AMSE, vol. 74, no. 7, pp. 31-54, 2001, France
62	Implication of load side power factor and on load tap changer on stability of load voltage in a longitudinal power transmission system.	A. Chakrabarti and B. Rakshit and C. K. Chanda	Journal of Modelling, Measurement and Control, vol. 70, no. 1, AMSE, France, pp.17-30, 1998.
63	A study on voltage stability problem of EHV lines in longitudinal power supply systems.	A. Chakrabarti and C. K. Chanda and A. K. Mukhopadhyay and D. K. Basu	Journal of AMSE, vol. 3, pp.189-205 AMSE, France, 1992.
64	Dynamic stability of longitudinal power system under the influence of small perturbations.	A. Chakrabarti and C. K. Chanda	Journal of Signals, data and Systems, vol.3, pp.183-188, AMSE, France, 1992.

#### b) List of Conference Papers:

Sl. No.	Title of Paper(s)	Name of the Author(s)	Name of the Conference
1.	Contingency Analysis Study for a 39 Bus System in a Micro-grid	Dipu Mistry, Bishaljit Paul, Chandan Kumar Chanda	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)
2.	Survivability Assessment of a DG-enabled Power Distribution System through Network Reconfiguration	Debarghya Choudhury, Dipanjan Bose, Chandan Kumar Chanda	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)
3.	Analysis of Economic Operation in Thermal Generators Using Human Safety Corona Virus Algorithm	Deblina Maity, Amit Saha, Sumit Banerjee, Chandan Kumar Chanda	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)
4.	Design of E-Bike Swapping Station and its Impact Analysis on LV Power Distribution System	Sandeep Kumar Chawrasia, Debmalya Hembram, Chandan Kumar Chanda	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)
5.	Electrical Distance Based ML-Assisted Clustering Case Study on Indian 62-Bus Utility Grid for Voltage Control Area Determination	Dipanjan Bose, Moulindu Mandal, Aritra Paul, Rishav Choudhuri, Diptarka Roy, Chandan Kumar Chanda	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)

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6.	Effect of PV Soiling on Day-ahead Scheduling of a Grid Integrated Microgrid	Saheli Sengupta, Chandan Kumar Chanda, Hiranmay Saha, Samarjit Sengup	2023 International Symposium on Devices, Circuits and Systems (ISDCS)
7.	Onboard Rooftop Solar Charging for Green Transportation in tourism sector	Moumita Pramanik, Hiranmay Samanta, Sudipta Basu Pal, Konika Das Bhattacharya, Chandan Kumar Chanda, Hiranmay Saha	2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT)
8.	Modelling Impact Analysis of EVCSL and Effect of Renewable Mix in Distribution Grid	Susovan Dutta, Bishaljit Paul, Barnali Kundu, Chandan Kumar Chanda	2023 Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT)
9.	Optimal Coordination of Directional Over Current Relay Using Analytical and Swarm Algorithms	Animesh Karmakar, Tapan Santra, Chandan Kumar Chanda, Sabitendu Mahapatra	2023 International Conference for Advancement in Technology (ICONAT)
10.	A Graph Theory Based Post-Event Degraded State Resiliency Index for Power Systems	Rishav Choudhuri, Diptarka Roy, Moulindu Mandal, Dipanjan Bose, Aritra Paul, Chandan Kumar Chanda	2023 International Conference for Advancement in Technology (ICONAT)
11.	Analysis of Cascading Failures in the Study of Power System Resiliency	Pallabi Sarkar, Dipanjan Bose, Abhiram Alayil, Chandan Kumar Chanda, Sandeep Kumar Chawrasia, Abhijit Chakrabarti	2022 1st IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDEA)
12.	Impact analysis of EV load on distribution system	Sandeep Kumar Chawrasia, Debmalaya Hembram, Chandan Kumar Chanda	2022 2nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON)
13.	Effects of X/R on the Power Dynamics of a Rural Distribution System and the economic implications	Moumita Pramanik, Uttiya Roy, Konika Das Bhattacharya, Chandan Kumar Chanda	2022 IEEE Calcutta Conference (CALCON)
14.	Prediction of Power Outage During Cyclone Using Machine Learning	Abhiram Alayil, Pallabi Sarkar, Dipanjan Bose, Chandan Kumar Chanda	2022 IEEE Calcutta Conference (CALCON)
15.	Modelling of a non-isolated DC-DC converter for low power PV application	Subhasri Kar, Sumit Banerjee, CK Chanda	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)
16.	Design of a Digitally Controlled Two-Phase Interleaved DC-DC Boost Converter for DC Microgrid	Moumita Pramanik, Tuhin Kumar Barui, Hiranmay Samanta, Konika Das Bhattacharya, Chandan Kumar Chanda, Hiranmay Saha	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)
17.	Crewman Deployment Model for Improving the Resiliency of the Power System	Sneha Gope, Imon Dutta, Kairab Roy, Indrayudh Chakrabarti, Dipanjan Bose, Chandan Kumar Chanda	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)
18.	Modeling and Performance Analysis of a Closed Loop PEMFC in Small Scale Stand Alone DC System	Snehashis Ghoshal, Sumit Banerjee, Rakesh Maji, Nehal Akhter, Chandan Kumar Chanda	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)
19.	Capacity Estimation of Lithium-ion Battery with Least Squares Methods	Shivanshu Kumar, Himadri Sekhar Bhattacharyya, Amalendu Bikash Choudhury, Chandan Kumar Chanda	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)
20.	Modeling and analysis of MPPT based solar PV system under dynamic weather conditions	Snehashis Ghoshal, Sumit Banerjee, Souvik Kundu, Debojyoti Biswas, Ashish Kumar Dayal, Chandan Kumar Chanda	2022 International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP)



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21.	Elimination of Hot-Spot in a Photovoltaic Module using Protection Diode	Subhasri Kar, Sumit Banerjee, CK Chanda	2022 2nd International Conference on Intelligent Technologies (CONIT)
22.	Modeling and Performance Analysis of a SOFC in Small Scale Stand Alone DC System	Snehashis Ghoshal, Sumit Banerjee, Chandan Kumar Chanda	2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)
23.	Integration of Stochastic Energy for Real Time Balancing and Pricing	Dipu Mistry, Sudhangsu Sarkar, Bishaljit Paul, Chandan Kumar Chanda	2022 4th International Conference on Energy, Power and Environment (ICEPE)
24.	Scheduling of Generation and Loads Through Market Clearing Auction in a Dynamic Power Market	Priyanjali Mukherjee, Sushovan Goswami, Bishaljit Paul, Chandan Kumar Chanda	2022 4th International Conference on Energy, Power and Environment (ICEPE)
25.	Performance Analysis of PV-Fuel cell hybrid system in small scale DC system	Snehashis Ghoshal, Sumit Banerjee, Chandan Kumar Mahato, Chandan Kumar Chanda	2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)
26.	Modelling and Performance Evaluation of MPPT Based Solar PV System in MATLAB/Simulink Environment	Snehashis Ghoshal, Sumit Banerjee, Chandan Kumar Chanda	2022 IEEE 7th International conference for Convergence in Technology (I2CT)
27.	Planning of Power Loss and Fuel Cost Minimization by Deployment of DERs Using Evolutionary Algorithm	Deblina Maity, Sumit Banerjee, Chandan Kumar Chanda	Sustainable Energy and Technological Advancements: Proceedings of ISSETA 2021
28.	Modeling and Performance Evaluation of MPPT-Based PMSG Wind Energy Conversion System with Boost Converter in MATLAB/Simulink Environment	Snehashis Ghoshal, Sumit Banerjee, Chandan Kumar Chanda	Sustainable Energy and Technological Advancements: Proceedings of ISSETA 2021
29.	Graphical Approach to Recognize Optimal Distribution Network Reconfiguration	P Konwar, D Sarkar, CK Chanda	Advanced Energy and Control Systems: Select Proceedings of 3rd International Conference, ESDA 2020
30.	Co-optimization of Energy and Reserve Capacities Through Expected Load Not Served	P Mukherjee, S Sarkar, B Paul, CK Chanda	International Conference on Energy Systems, Drives and Automation, 3-12, 2021
31.	Convolution Neural Network-Based SOC Estimation of Li-ion Battery in EV Applications	Himadri Sekhar Bhattacharyya, Aviral Yadav, Amalendu Bikash Choudhury, Chandan Kumar Chanda	2021 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT)
32.	Stepwise Modelling and Analysis of A PV Module in Matlab Simulink	Subhasri Kar, Sumit Banerjee, C. K. Chanda	2021 International Conference on Intelligent Technologies (CONIT)
33.	Modelling simulation and characteristics of a Mono PERC solar cell under environmental condition	Subhasri Kar, C. K. Chanda, Sumit Banerjee	2021 IEEE Green Technologies Conference (GreenTech)
34.	FFT and PMU Based Fault Analysis in Double Circuit Transmission Line	Suman Ghosh, Avinash Shaw, Aavek Chattopadhyaya, Barnali Kundu, C. K. Chanda, JK Das	2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS)
35.	A Comprehensive Survey on Communication Technologies for a Grid Connected Microgrid System	Suman Ghosh, C. K. Chanda, JK Das	2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS)
36.	Assessment of Resiliency by incorporating DGs in Power Network using Graph Theoretic Approach	Manikanchan Mandal, Dipanjan Bose, C. K. Chanda	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies
37.	An Analysis of Heat and Power Dispatch Solution in Co-generation Units Assisted By Volleyball Premier League Algorithm	Deblina Maity, Sumit Banerjee, C. K. Chanda	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies

<b>Sl. No.</b>	<b>Title of Paper(s)</b>	<b>Name of the Author(s)</b>	<b>Name of the Conference</b>
38.	Design and Analysis of Electric bike Hub-Motor using Motor-CAD	Sandeep Kumar Chawrasia, Aakash Das, C. K. Chanda	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies
39.	Distributed energy trading network: decentralized and secured	Sounak Bhowmik, Milandeep Sarkar, Dipanjan Bose, C. K. Chanda	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies
40.	Equivalent Circuit Modelling and Extraction of Optimal Parameters of Lithium-ion Battery by Electrochemical Impedance Spectroscopy Test	Himadri Sekhar Bhattacharyya, Amalendu Bikash Choudhury, C. K. Chanda	Michael Faraday IET International Summit 2020 (MFIS 2020)
41.	Complex Network Theory Based Analysis of Cascading Failure of Electrical Power Transmission Network against Intentional Attacks and Outages	Dipanjan Bose, C. K. Chanda, Abhijit Chakrabarti	Michael Faraday IET International Summit 2020 (MFIS 2020)
42.	Design, analysis and comparative study of Hub motor for an electric bike	Sandeep Kumar Chawrasia, Aakash Das, C. K. Chanda, Sumit Banerjee	Michael Faraday IET International Summit 2020 (MFIS 2020)
43.	Multi-dimensional ANN application for active power flow state classification on a utility system	Shubhranshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	2020 IEEE Calcutta Conference (CALCON)
44.	Design and Analysis of In-Wheel Motor for an Electric Vehicle	Sandeep Kumar Chawrasia, Chandan Kumar Chanda, Sumit Banerjee	2020 IEEE Calcutta Conference (CALCON)
45.	Performance Analysis of a Lithium-ion Battery Pack in EV Application Using an Auto-Upgraded Neural Network Model	Himadri Sekhar Bhattacharyya, Amalendu Bikash Choudhury, C. K. Chanda	2019 8th International Conference on Power Systems (ICPS)
46.	Evaluation of Locational Marginal Pricing in Deregulated Contingency Market by DCOFF Method	Deblina Maity, Sumit Banerjee, C. K. Chanda	2019 16th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)
47.	Analysis of Load Allocation Problem Using Flower Pollination Algorithm with Constraints	D. Maity; S. Banerjee; C. K. Chanda	2019 16th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)
48.	Evaluation of Locational Marginal Pricing in Deregulated Contingency Market by DCOFF Method	D. Maity; S. Banerjee; C. K. Chanda	2019 16th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)
49.	Effective Scheduling of Spinning Reserve Services and Cost of Energy in a Deregulated Power Market	B. Paul; C. K. Chanda; M. K. Pathak; J. Pal	2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE)
50.	Microgrid: Planning Of Optimal Placing Of Distributed Energy Resources By Loss And Fuel Cost Reduction Using Map Reduce Optimization Algorithm Approach	D. Maity; A. Ghosh; S. Banerjee; C. K. Chanda	2018 National Power Engineering Conference (NPEC)
51.	Economic Dispatch Solution for Cogeneration Unit Assisted By Bare Bones Teaching Learning Optimization Technique	A. Ghosh; S. Banerjee; D. Maity; C. K. Chanda	2018 National Power Engineering Conference (NPEC)
52.	Smart Grid Stability Analysis on Smart Demand Load Response in Coordinated Network	S. k. Samanta; C. K. Chanda	2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE)
53.	A Model Based Approach in Determining the Performance of EV Under Different Drive Cycles	H. S. Bhattacharyya; A. B. Choudhury; C. K. Chanda	2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE)

<b>Sl. No.</b>	<b>Title of Paper(s)</b>	<b>Name of the Author(s)</b>	<b>Name of the Conference</b>
54.	Solution of economic problem with co-generation units using mine blast algorithm	D. Maity; A. Ghosh; S. Banerjee; C. K. Chanda	2017 IEEE Calcutta Conference (CALCON)
55.	Investigate the impact of smart grid stability analysis on synchronous generator	S. K. Samanta; C. K. Chanda	2017 IEEE Calcutta Conference (CALCON)
56.	Resiliency improvement for a part of south Indian power transmission network	T. Chowdhury; C. K. Chanda; A. Chakrabarti	2017 Australasian Universities Power Engineering Conference (AUPEC)
57.	Pricing of Energy in a Deregulated Power Market	B. Paul; M. K. Pathak; C. K. Chanda; J. Pal	2017 International Conference on Computer, Electrical & Communication Engineering (ICCECE)
58.	A comparison of locational marginal prices and locational load shedding marginal prices in a deregulated competitive power market	B. Paul; M. K. Pathak; J. Pal; C. K. Chanda	2017 IEEE Calcutta Conference (CALCON)
59.	Stability Analysis in a Smart Grid Network Due to Dynamic Demand Load Respond	S. k. Samanta; C. K. Chanda	2017 International Conference on Computer, Electrical & Communication Engineering (ICCECE)
60.	Mimicking on-line monitoring and security estimation of power system using ANN on RT lab	S. K. Tiwary; J. Pal; C. K. Chanda	2017 IEEE Calcutta Conference (CALCON)
61.	On transmission congestion management strategies and forecasting locational marginal prices in a deregulated competitive power market	C. K. Chanda; J. Pal; B. Paul; M. K. Pathak	2017 Australasian Universities Power Engineering Conference (AUPEC)
62.	Improved cost analysis through smart grid network due to dynamic demand load response	S. k. Samanta; C. K. Chanda	2016 IEEE 6th International Conference on Power Systems (ICPS)
63.	Economic load dispatch with prohibited zone and ramp-rate limit constraints – A comparative study	K. Dasgupta; S. Banerjee; C. K. Chanda	2016 IEEE First International Conference on Control, Measurement and Instrumentation (CMI)
64.	Solving of economic load dispatch problem with generator constraints using ITLBO technique	A. Mondal; D. Maity; S. Banerjee; C. K. Chanda	2016 IEEE Students' Conference on Electrical, Electronics and Computer Science (SCEECS)
65.	Implementation of MRPSO techniques on economic load dispatch problem considering various generator constraints	D. Maity; S. Banerjee; C. K. Chanda; S. Samanta	2016 10th International Conference on Intelligent Systems and Control (ISCO)
66.	A framework for resilience performance analysis of an electrical grid	D. Ahmad; C. K. Chanda	2016 2nd International Conference on Control, Instrumentation, Energy & Communication (CIEC)
67.	Implementation of quassi-oppositional TLBO technique on economic load dispatch problem considering various generator constraints	D. Maity; S. Banerjee; C. K. Chanda; S. Samanta	2016 3rd International Conference on Electrical Energy Systems (ICEES)
68.	An application of complex network in allocation of distributed generation in distribution network	T. Chowdhury; C. K. Chanda; A. Bera	2016 2nd International Conference on Control, Instrumentation, Energy & Communication (CIEC)
69.	Implication of DG Incorporation in Criticality Assessment of Power Network Buses Using Betweenness Metric	Tamalika Chowdhury, C.K. Chanda, AbhijitChakrabarti	The 9 <sup>th</sup> International Conference on Computer and Electrical Engineering, Barcelona, Spain (ICCEE 2016)
70.	A unique method of analyzing vulnerable cascading failure of power transmission network employing complex network theory	Abhijit Chakrabarti, Tamalika Chowdhury, C.K. Chanda	IE(I) 32 <sup>nd</sup> National Convention of Electrical Engineers & National Seminar on “Sustainable Development in Indian Power Sector for the Next Decade” & Annual Technical Paper Meet & All India Seminar on “Sustainable Developments in Indian Engineering Sector in Next Decade”, November 2016.
71.	An analysis of Economic Load Dispatch with Ramp-rate limit constraints using BSA	A. Pal; K. Dasgupta; S. Banerjee; C. K. Chanda	2016 IEEE Students' Conference on Electrical, Electronics and Computer Science (SCEECS)

<b>Sl. No.</b>	<b>Title of Paper(s)</b>	<b>Name of the Author(s)</b>	<b>Name of the Conference</b>
72.	Optimal sizing and location determination of distributed generation in distribution networks	S. K. Saha; S. Banerjee; D. Maity; C. K. Chanda	2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)
73.	Netability analysis of critical lines of power grid based on betweenness approach	T. Chowdhury; G. K. Rout; C. K. Chanda	2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)
74.	An analysis of economic load dispatch with ramp-rate limit constraints using different algorithms	K. Dasgupta; S. Banerjee; C. K. Chanda	2015 International Conference on Industrial Instrumentation and Control (ICIC)
75.	Wireless power network design through smart grid transmission system model	S. K. Samanta; C. K. Chanda	2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)
76.	Short-term hydrothermal scheduling using Time Varying Acceleration coefficient based Particle Swarm Optimization with Constriction Factor and Inertia Weight Approach	K. Dasgupta; S. Banerjee; C. K. Chanda	2015 International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)
77.	Analysis of Vulnerability indices of power grid integrated DG units based on Complex Network theory	T. Chowdhury; A. Chakrabarti; C. K. Chanda	2015 Annual IEEE India Conference (INDICON)
78.	Status of all branches of distribution networks in chronological order using distributed generation at optimal position	S. K. Saha; S. Banerjee; C. K. Chanda	2014 1st International Conference on Non Conventional Energy (ICONCE 2014)
79.	Impact of shunt capacitor on voltage stability analysis of distribution networks under critical loading conditions	T. K. Chattopadhyay; S. Banerjee; C. K. Chanda	2014 First International Conference on Automation, Control, Energy and Systems (ACES)
80.	Selection of distributed generation for distribution network: A study in multi-criteria framework	P. Kayal; C. M. Khan; C. K. Chanda	Proceedings of The 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC)
81.	Impact of distributed generator on voltage stability analysis of distribution networks under critical loading conditions for composite loads	T. K. Chattopadhyay; S. Banerjee; C. K. Chanda	International Conference on Electronics, Communication and Instrumentation (ICECI)
82.	Modified GSO for combined economic emission load dispatch with valve-point effects	K. C. Meher; R. K. Swain; C. K. Chanda	2014 International Conference on Advances in Electronics Computers and Communications
83.	Impact of distributed generator on voltage stability analysis of distribution networks under critical loading conditions	T. K. Chattopadhyay; S. Banerjee; C. K. Chanda	2014 1st International Conference on Non Conventional Energy (ICONCE 2014)
84.	Voltage stability analysis of distribution networks under critical loading conditions	T. K. Chattopadhyay; S. Banerjee; C. K. Chanda	2014 POWER AND ENERGY SYSTEMS: TOWARDS SUSTAINABLE ENERGY
85.	Simultaneous placement and sizing of renewable DGs and capacitor banks in distribution network	P. Kayal; T. Ashish; C. K. Chanda	2014 International Conference on Circuits, Power and Computing Technologies [ICCPCT-2014]
86.	Registration of progressively transmitted MR with lesions in brain	A. De; A. K. Bhattacharjee; C. K. Chanda; B. Maji	2013 International Conference on Circuits, Power and Computing Technologies (ICCPCT)
87.	Optimal location, type and size selection technique of Distributed Generation based on economic index	P. Kayal; M. A. Seena; C. K. Chanda	2013 International Conference on Energy Efficient Technologies for Sustainability
88.	Voltage stability margin of distribution networks for composite loads	S. Banerjee; T. K. Chattopadhyay; C. K. Chanda	2012 Annual IEEE India Conference (INDICON)
89.	Optimal sizing of multiple Distributed Generation units connected with distribution system using PSO technique	P. Kayal; A. Upadhyaya; S. Kar; C. K. Chanda	2012 International Conference on Emerging Trends in Electrical Engineering and Energy Management (ICETEEEM)
90.	Congestion management in transmission network on viewpoint of voltage stability enhancement	P. Kayal; S. Chanda; T. Das; A. Sen; C. K. Chanda	2012 International Conference on Advances in Power Conversion and Energy Technologies (APCET)
91.	MRI segmentation using Entropy maximization and Hybrid Particle Swarm Optimization with Wavelet Mutation	A. De; A. K. Bhattacharjee; C. K. Chanda; B. Maji	2011 World Congress on Information and Communication Technologies

Sl. No.	Title of Paper(s)	Name of the Author(s)	Name of the Conference
92.	An ANN based network reconfiguration approach for voltage stability improvement of distribution network	P. Kayal; S. Chanda; C. K. Chanda	2011 International Conference on Power and Energy Systems
93.	Study of Loading Status for all Branches in chronological order at different conditions in a Radial Distribution Systems using Reactive Loading Index technique	S. Banerjee; C. K. Chanda; S. C. Konar; P. K. Ghosh	2010 Joint International Conference on Power Electronics, Drives and Energy Systems & 2010 Power India
94.	Proposed procedure for estimation of maximum permissible load bus voltage of a power system within reactive loading index range	S. Banerjee; C. K. Chanda	TENCON 2009 - 2009 IEEE Region 10 Conference
95.	Determination of the weakest branch in a radial distribution network using local voltage stability indicator at the proximity of the voltage collapse point	S. Banerjee; C. K. Chanda; S. C. Konar	2009 International Conference on Power Systems
96.	Study of transmission line loadability in context of voltage stability	S. Halder, A. Chakrabarti, C.K. Chanda and S. Biswas	All India seminar on "Emerging trends in Power Sector", no. 7, 5 <sup>th</sup> -6 <sup>th</sup> August 2006, Ranchi
97.	Maximum power transfer capability within the voltage stability limit of compensated extra high voltage (E.H.V.) longitudinal power transmission system	C.K. Chanda, A. Chakrabarti, A.Chowdhury, A.K. Mallick, I.Biswas and G.K. Bayen	International Conference on energy, Information Technology & power Sector, 28 <sup>th</sup> -29 <sup>th</sup> Jan'2005, ScienceCity, Kolkata
98.	Determination of proximity to collapse of voltage level in an extra high voltage transmission line.	C. K. Chanda and A. Chakrabarti	The Japan Automatic Control Conference, paper no. TA1-07-2, Okayama, Japan, 27-28 <sup>th</sup> Nov.' 2003.
99.	Determination of Global Voltage Security of a Weak Power System using Load Flow Analysis	C. K. Chanda, A. Chakrabarti and S. Dey	The Japan Automatic Control Conference, paper no. TA2-10-1, Okayama, Japan, 27-28 <sup>th</sup> Nov.' 2003
100.	Voltage stability governed loadability limit of a weak load bus in EHV transmission network	Sugata Sadhukhan, A. Chakrabarti and C. K. Chanda	The National Seminar on INDIA POWER SCENARIO-Present and Future Perspective, The Institution of Engineers (I), pp.56-61, 1-2 <sup>nd</sup> Nov' 2002.
101.	Development of a simulation technique to facilitate control and improvement of voltage stability of power transmission system using fast decoupled load flow (FDLF)	A. Chakrabarti, C. K. Chanda, S. Dey, P. N. Das and A.K. Mukhopadhyay	The International Conference on Control, Instrumentation and Information Communication (CIIC), pp. 161-165, Calcutta, 13-15 <sup>th</sup> Dec'2001.
102.	Justification of employing FC-TCR type SVC at the load bus of rural medium voltage distribution system.	C. K. Chanda, A. Chakrabarti & A. K. Mukhopadhyay	International Conference (MS'2001-China), pp. 754-758, Sept'2001. <b>(Best Paper Award)</b>
103.	Justification of employing FC-TCR Type SVC at the load bus of rural medium voltage distribution system.	C. K. Chanda, A. K. Mukhopadhyay and A. Chakrabarti	The International Conference in Changsha, China, pp. 754, 25-27 <sup>th</sup> Sept.' 2001
104.	Effects of shunt susceptance at load bus of a longitudinal power supply system on its operational security.	C. K. Chanda, S. Dey and Dr. A. Chakrabarti	The All India Seminar, 'Power System: Recent Advances and prospects in 21 <sup>st</sup> Century', 17 <sup>th</sup> Feb' 2001, Jaipur, India

### c) Citations:

Google Scholar Id: <a href="https://scholar.google.com/citations?user=kFMv5qYAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.com/citations?user=kFMv5qYAAAAJ&amp;hl=en&amp;oi=ao</a>		
<b>Citations</b>	<b>h- index</b>	<b>i-10 index</b>
1794	17	30

<b>Scopus Id:</b> <a href="https://www.scopus.com/authid/detail.uri?authorId=6602673521">https://www.scopus.com/authid/detail.uri?authorId=6602673521</a>		
<b>Citations</b>	<b>h- index</b>	<b>Publications</b>
1293	14	175
<b>Research Gate Id:</b> <a href="https://www.researchgate.net/profile/Chandan-Chanda">https://www.researchgate.net/profile/Chandan-Chanda</a>		
<b>Citations</b>	<b>h- index</b>	<b>Publications</b>
689	11	131

**Vidwan Id:** <https://vidwan.inflibnet.ac.in/profile/60910>

**Orcid Id:** <https://orcid.org/0000-0002-8520-5720>

## 11. Books authored:

### a. Books: Total 14 books

Sl. No.	Name of Book/Monograph	Name of the Author(s)	Year of Publication	Publisher with address
1	Computational Techniques for Power System Analysis	Dipu Sarkar, C. K. Chanda, Abhinandan De	2024	BS Publications
2	Power Transmission System Analysis Against Faults and Attacks	T. Chowdhury, A. Chakrabarti, C. K. Chanda	2021	CRC Press, USA
3	Basic Electrical Engineering (2 <sup>nd</sup> Edition)	A. Chakrabarti, S. Nath and C. K. Chanda	2021	McGraw Hill, India
4	GATE for Electrical Engineering	C. K. Chanda, S. Banerjee and A. Chakrabarti	2016	PHI Learning Pvt. Ltd., New Delhi, India
5	Digital Fundamentals and Applications	C. K. Chanda and S. Banerjee	2011	Laxmi Publications Pvt. Ltd., Delhi
6	Laboratory Experiments on Electrical Machines	A. Chakrabarti and C. K. Chanda	1998	Dhanpat Rai & Co. Pvt. Ltd, India
7	Joint Entrance Ganit Plus	C. K. Chanda, Sayonsom Chanda	2016	ABC Modern Publishing House
8	Impact of Shunt Capacitor and DERs in Distribution Networks	Deblina Maity, Sumit Banerjee and C. K. Chanda	2019	Lambert Academic Publishing
9	Minimization of Power Loss by Optimizing Fuel Cost in Micro-Grid	Deblina Maity, Sumit Banerjee and C. K. Chanda	2022	Lambert Academic Publishing
10	Transmission Congestion Management	Bishaljit Paul, C. K. Chanda, Jagadish Pal	2022	Lambert Academic Publishing
11	Development of New VSI of RDS by Using DGs and Its Reliable Operation	Sumit Banerjee, C. K. Chanda, Tapan Kumar Chattopadhyay	2023	Lambert Academic Publishing
12	Energy Systems, Drives and Automations: Proceedings of ESDA 2019 (Edited Book)	A Sikander, Dulal Acharjee, C. K. Chanda, PK Mondal, P Verma	2020	Springer Singapore

Sl. No.	Name of Book/Monograph	Name of the Author(s)	Year of Publication	Publisher with address
13	Advanced Energy and Control Systems: Select Proceedings of 3rd International Conference, ESDA 2020 (Edited Book)	C. K. Chanda, Jerzy R. Szymanski, Afzal Sikander, Pranab Kumar Mondal, Dulal Acharjee	2022	Springer Singapore
14	Energy Systems, Drives and Automations: Proceedings of ESDA 2021(Edited Book)	Jerzy Ryszard Szymanski, C. K. Chanda, Pranab Kumar Mondal, Kamrul Alam Khan	2023	Springer Singapore

**b. Book Chapters:** Total 25 book chapters

Sl. No.	Name of Book Chapter(s)	Name of the Author(s)	Year of Publication	Publisher with address
1	Allocation and Size Evaluation of Distributed Generation	C. K. Chanda, Partha Kayal	2013	In Power, Control and Optimization, Lecture Notes in Electrical Engineering, Springer, vol. 239, pp. 87-102
2	Solution of Multi-objective Combined Economic Emission Load Dispatch Using Krill Herd Algorithm with Constraints	C. K. Chanda, Sumit Banerjee, Deblina Maity	2019	Modelling and Simulation in Science, Technology and Engineering Mathematics, Springer
3	Optimal Operation of Renewable Distributed Generators (DG's) and its Environmental Benefits	C. K. Chanda, Dipanjan Bose	2019	Encyclopedia of Renewable and Sustainable Materials, Elsevier
4	Challenges of Employing Renewable Energy for reducing Green House Gases (GHGs) and Carbon footprint	C. K. Chanda, Dipanjan Bose	2019	Encyclopedia of Renewable and Sustainable Materials, Elsevier
5	Congested Power Transmission System in a Deregulated Power Market	Bishaljit Paul, C. K. Chanda, Jagadish Pal, Manish Kumar Pathak	2020	Computational Advancement in Communication Circuits and Systems, Springer, Singapore
6	Application of common ANN for similar datatypes in on-line monitoring and security estimation of power system	Shubhranshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	2019	Emerging Technologies in Data Mining and Information Security, Springer, Singapore
7	Unit commitment solution by branch and bound algorithm	Bishaljit Paul, Sushovan Goswami, Dipu Mistry, C. K. Chanda	2020	Proceedings of Industry Interactive Innovations in Science, Engineering & Technology
8	ANN-Based Faster Indexing with Training-Error Compensation for MW Security Assessment of Power System	Shubhranshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	2020	Energy Systems, Drives and Automations, Springer, Singapore
9	A Unique Case Study on Real-Valued Cost Analysis of a Small Solar Plant	Suman Ghosh, JK Das, C. K. Chanda	2020	Energy Systems, Drives and Automations, Springer, Singapore
10	Evaluation of the Applicability and Advantages of Application of Artificial Neural Network Based Scanning System for Grid Networks	Shubhranshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	2021	Progress in Advanced Computing and Intelligent Engineering, Springer, Singapore
11	Modelling of Solar Cell Considering One Diode Model in MATLAB/Simulink Environment	Snehashis Ghoshal, Sumit Banerjee, C. K. Chanda	2021	Intelligent Electrical Systems: A Step towards

<b>Sl. No.</b>	<b>Name of Book Chapter(s)</b>	<b>Name of the Author(s)</b>	<b>Year of Publication</b>	<b>Publisher with address</b>
				Smarter Earth, CRC Press
12	Modelling of Intelligent Cooling of a Building in MATLAB/Simulink Environment	Snehashis Ghoshal, Sumit Banerjee, C. K. Chanda	2021	Intelligent Electrical Systems: A Step towards Smarter Earth, CRC Press
13	Monitoring Static Security Assessment in Its Full Scope Using Common Artificial Neural Network	Shubhanshu Kumar Tiwary, Jagadish Pal, C. K. Chanda	2021	Intelligent Electrical Systems: A Step towards Smarter Earth, CRC Press
14	Contingency Analysis and Ranking for a 30 Bus System to Maintain Its Stability and Reliability	Parnab Saha, Suman Moitra, Bishaljit Paul, C. K. Chanda	2022	Computational Advancement in Communication, Circuits and Systems, Springer, Singapore
15	Price Sensitivity in a 30 Bus Congested Power System	Parnab Saha, Sujit Pani, Bishaljit Paul, C. K. Chanda	2022	Computational Advancement in Communication, Circuits and Systems, Springer, Singapore
16	Evaluation of Azimuth Angle Profile for Solar Photovoltaic System in Humid Subtropical Climate of Varanasi City	Suman Moitra, Parnab Saha, Bishaljit Paul, C. K. Chanda	2022	Computational Advancement in Communication, Circuits and Systems, Springer, Singapore
17	Security of Load Flow Analysis with Photovoltaic Energy Sources	Dipu Mistry, Bishaljit Paul, C. K. Chanda	2022	Computational Advancement in Communication, Circuits and Systems, Springer, Singapore
18	Graphical Approach to Recognize Optimal Distribution Network Reconfiguration	Pushpanjalee Konwar, Dipu Sarkar, C. K. Chanda	2022	Advanced Energy and Control Systems, Springer, Singapore
19	COVID-19: Impact Analysis on Power Sector (A Comprehensive Review on Demand Change)	C. K. Chanda, Emily Vanlalnunsangi, Soumya Adabala, Dipanjan Bose	2022	Advanced Energy and Control Systems, Springer, Singapore
20	Analysis of Voltage Stability in Smart Grid System Due to Demand Load Variation	Shouvik Kumar Samanta, C. K. Chanda	2022	Advanced Energy and Control Systems, Springer, Singapore
21	Performance Analysis of Latency on Wide Area Monitoring and Control for a Smart Power Grid	Suman Ghosh, JK Das, C. K. Chanda	2022	Advanced Energy and Control Systems, Springer, Singapore
22	Development of New VSI of RDS by Using DGs and Its Reliable Operation	Sumit Banerjee, Chandan Kumar Chanda, Tapan Kumar Chattopadhyay	2023	LAP LAMBERT Academic Publishing
23	Contingency Analysis Study for a 39 Bus System in a Micro-grid	Dipu Mistry, Bishaljit Paul, Chandan Kumar Chanda	2023	Microelectronics, Circuits and Systems: Select Proceedings of Micro2021
24	Multi-Class Classification of Power Network States Using Multi-Dimensional Neural Network	Shubhanshu Kumar Tiwary, Jagadish Pal, Chandan Kumar Chanda	2023	Recent Advances in Energy Systems, Power and Related Smart Technologies: Concepts and Innovative Implementations for a Sustainable Economic Growth in Developing Countries



Sl. No.	Name of Book Chapter(s)	Name of the Author(s)	Year of Publication	Publisher with address
25	Artificial Neural Net Based Performance Index for Voltage Security Assessment	Shubhranshu Kumar Tiwary, Jagadish Pal, Chandan Kumar Chanda	2023	Recent Advances in Energy Systems, Power and Related Smart Technologies: Concepts and Innovative Implementations for a Sustainable Economic Growth in Developing Countries

## 12. Awards Received:

- Best Paper Award in International Conference “MS’2001- China” Held in Hunan, Changsha, China in 2001.
- TATA – RAO Prize Award for the selection of best paper In IE (I)- Springer Journal in the year 2014 and award conferred in 29th Indian Engineering Congress, 19-21 Dec- 2014, Hyderabad, India.
- Letter of Appreciation from Editor- in- Chief B. Don Russel, Ph.D, P.E., EPSR, Elsevier.
- Best Paper presentation in ICCEE-2016, Barcelona, Spain.
- Best Paper presentation in 32nd National Convention of Electrical Engineers & National Seminar on Sustainable Development in Indian Power Sector for the next Decade, The Institute of Engineers, Pune.
- Best paper presentation in ICLISEM-2017, GOA, Panjim 19th Feb-2017
- “Vidyasagar Award” in ESDA 2019, Kolkata.
- “Lotfi A. Zadeh Award” in ESDA 2022, Kolkata.
- Best Paper Award in ESDA 2023, Kolkata, December 2023.

## 13. Foreign Visit:

- USA, UK, Japan, Egypt, Spain and China for academic purposes.
- Technical Chair at Melbourne, Australia in AUPEC 2017, International conference.

## 14. Research Guidance:

### a) Ph. D. thesis Supervision:

Sl. No.	Name of Student(s)	Title of the Dissertation(s)	Status
1	Krishendu Adhvaryu	Optimization of Gain and Suppression of Amplified Spontaneous Emission in an EDFA (2010)	Awarded on 2010
2	Sumit Banerjee	Operation of Electric Power Distribution System (2012)	Awarded on 2013
3	Arunava De	Development of suitable Techniques for Images registration, segmentation, De-Noising and Transmission for Diseased MRI (2013)	Awarded on 2013

Sl. No.	Name of Student(s)	Title of the Dissertation(s)	Status
4	Dipu Sarkar	Intelligent Algorithm Assisted Network Reconfiguration for Improved Power System Operation (2013)	Awarded on 2013
5	Partha Kayal	Efficient Integration of Distributed Generation in Electricity Distribution Network: Placement and Sizing Issues	Awarded on 2016
6	Chandra Mohan Khan	Study of Power System Stability in Large Power System Network using Strategic Control Technique	Awarded on 2016
7	Tamalika Chowdhury	Vulnerability Assessment of Power System Networks Employing Complex Network Theory	Awarded on 2019
8	Tapan Kumar Chattopadhyay	Voltage Stability of Radial Distribution System under Presence of Shunt Capacitance and Distributed Generation	Awarded on 2019
9	Bisaljit Pal	Transmission Congestion Management, Pricing and Locational Marginal Pricing in the Deregulated Power System	Awarded on 2020
10	Sanjoy Kumar Saha	Optimal Location and Sizing of Distributed Generator in Radial Distributed Network Assisted Soft Computing Technique	Awarded on 2020
11	Deblina Maity	Minimization of Power Loss by Optimizing Fuel Cost in Micro-grid	Awarded on 2021
12	Shouvik Kumar Samanta	Stability Assessment in Smart Grid Power System Network with Integration of Renewable Energy Resources	Awarded on 2022
13	Subhranshu Kumar Tiwari	Application of Artificial Neural Network for On-line Static Security Assessment of Power System	Awarded on 2022
14	Himadri Sekhar Bhattacharyya	Modelling and On-load Parameter Estimation of Lithium-ion Battery in EV Application	Awarded on 2023
15	Suman Ghosh	On studies and Analysis in Synchrophasor Assisted Communicable Microgrid	Awarded on 2024
16	Saheli Sengupta	Investigations of PV module degradation for optimum operation of SPV integrated power system	Final Defense Awaited
17	Snehashis Ghosal	A Review of Smart Energy Management	Pre-submitted
18	Dipanjan Bose	Study on Power System Resilience Assessment	Pre-submitted
19	Sandeep Kumar Chawrasia	Solar Forecasting and Applications of Renewable energy	Ongoing
20	Moumita Pramanik	Technical and economic challenges of distribution network connectivity with micro-grids in the developing and the underdeveloped countries	Ongoing

*b) Ph. D. thesis Adjudication: More than 40 thesis have been adjudicated.*

*c) M.E. / M. Tech thesis Supervision: More than 36 thesis have been supervised.*

*d) B.E. / B. Tech thesis Supervision: More than 120 students have been supervised.*

#### **15. Membership of the Professional Bodies:**

- a) Senior Member, IEEE [93903597]
- b) Fellow of the Institution of Engineers (India) [113525\*9]
- c) Fellow of IETE [F-503386]

d) Member, IET, U.K. [1100526026]

e) Life Member Indian Society of Technical Education [LM-25664]

f) Chartered Engineer IE(I), Kolkata

#### **16. Other professional Activities:**

1. Inspection Member of different Engineering Colleges in West Bengal under MAKAUT (earlier known as WBUT), Kolkata.
2. Inspection Member of AICTE visits for academic audit in different Institutions.
3. I have attended accreditation program workshop of IET (UK) in Bangalore.
4. Ph. D and M. Tech/M. E External examiner of Calcutta University, Punjab University, IIT Bombay and NITs.
5. Member of Faculty Selection Committee in Jadavpur University, Calcutta University, IIT (ISM), Dhanbad and NITs as a Subject Expert.
6. Member of BOG of IIMS, Kolkata.
7. Regularly reviewing research papers for standard referred journals.
8. Panelist in CALCON 2014: National conference on Electrical, Electronics and Computer Engineering sponsored by IEEE Kolkata Section on 7-8 November 2014 Jadavpur University, Kolkata.
9. Session Chair in Second Michael Faraday IET India Summit: MFIIS-2013, held on 17<sup>th</sup> November, 2013 in Kolkata sponsored by The Institution of Engineering and Technology (IET) Kolkata Local Network.
10. Chairperson in First International Conference on Automation, Control, Energy & Systems – 2014 (ACES-14) Sponsored by IEEE held during 1<sup>st</sup> and 2<sup>nd</sup> February, 2014 at Academy of Technology, Hooghly-712121, W.B.
11. Member of the Board of Jurys in Electrical engineering section of The Academic Meet, 2010 of Forum of Scientists, Engineers and Technologists scheduled to be held on Kolkata during 9<sup>th</sup>-10<sup>th</sup> April, 2010.
12. Technical Session Chair in the track “Power and Energy” in the International Conference on Control, Instrumentation, Energy and Communication held on January 31- February 2, 2014 at Calcutta University Salt Lake Campus, Kolkata.
13. General Chair of Energy Systems, Drives and Automations (ESDA), 2018, 2019 and 2020, Kolkata.
14. Technical Chair at International Conference on Energy, Power and Environment (ICEPE 2015, ICEPE 2020, and ICEPE 2023), NIT, Meghalaya.



**(Chandan Kumar Chanda)**

**Date: 19/02/2024**