

Resume

NAME AND FULL ADDRESS

Dr. Dattatraya Narayan Gaonkar, Assoc. Professor
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ACADEMIC BACKGROUND: **Ph. D**, Indian Institute of Technology (IIT) Roorkee, 2008
M-Tech (Power and Energy Systems), National Institute of Technology Karnataka (NITK) Surathkal, 2003.
B. E. (Electrical and Electronics Engineering), B. V. B. College of Engineering and Technology, Hubli, Karnataka, 1998.
Diploma (Electrical Engineering) Govt. Polytechnic, Karawar, Karnataka, 1994

RESEARCH INTERESTS

Power System Operation and Control, Renewable Power Generation Systems, Smart Grid, Machine learning

PATENT:

Disclosure Title "A Method for islanding detection based on image classification with ensemble convolution neural networks" Inventors Santhosh K G Manikonda and Dattatraya N. Gaonkar (Application No (IPO): 201941036379 Date: 10th September 2019)

RESEARCH PROJECTS:

Sl. No.	Title of project	Sponsoring Agency	Amount of grant	Period & Status	Investigators
1	Investigation on the Operation & Control of Multiple Distributed Generation resources in a Microgrid (Phase-I)	Ministry of Power, Govt. of India through Central Power Research Institute Bangalore (CPRI)	Phase I 25 lakh	May 2011 to March 2013 Completed	Dr. D. N. Gaonkar (PI) Prof. Udaykumar R. Y.(co-PI)

2	Investigation on the Operation & Control of Multiple Distributed Generation resources in a Microgrid (Phase-II)	Ministry of Power, Govt. of India through Central Power Research Institute Bangalore (CPRI)	Phase II 25 lakh	July 2016 to March 2018 Completed	Dr. D. N. Gaonkar (PI) Dr. D. Jena (co-PI)
3	FPGA Based Development of Different MPPT Algorithms for a standalone Photovoltaic system using Artificial Intelligence	Ministry of Power, Govt. of India through Central Power Research Institute Bangalore (CPRI)	25.07 Lakhs	May 2014 to May 2016 Completed	Dr. D. Jena (PI) Dr. D. N. Gaonkar (co-PI)
4	Extraction of maximum power output from PV array using static reconfiguration scheme under non uniform irradiation conditions	Vision Group on Science and Technology (VGST), Govt of Karnataka	3 Lakh	Nov 2021- Nov 2022 Ongoing	Dr. A. Karthikeyan (PI) Dr. Dattatraya N. Gaonkar (Co-PI)

PHD GUIDANCE: Awarded -8, submitted 1, Ongoing-5

Sl. No	Name of the student	Thesis/proposal Title and Details of Co-supervisor(s) (If any)	Year of Degree Award
1	Mr. B. K. Singh	Modeling and Analysis of Distributed Generation Systems. Co-supervisor: Dr. R. S. Aithal, Dept. E&E, MIT Manipal	2011
2	Mr. R. Shivarudraswamy	Voltage regulation of power distributed generation system with interconnected distributed generators.	2013
3	Mr. Sanjeev Nayak	Grid Integrated operation of hybrid fuel Cell and microturbine based distributed generation System.	2015
4	Ms. Jayalakshmi N. S.	Modeling and performance analysis of microgrid with wind and Photovoltaic based distributed generation systems.	2015
5	Mr. Santosha Kumar A.	Modeling and performance analysis of microgrid with fuel cell and wind based distributed generation systems.	2016
6	Mr. Chethan Raj D	Operation and Control of an AC and DC Microgrid with Distributed generation systems.	2020
7	Mr. Ragavendra P	Voltage Regulation in Smart Grids with Distributed Generation Systems.	2018
8	Mr. M Santosh Kumar Goud EE15F08	Islanding Detection Using Computational Intelligence Techniques in a Smart Distribution Network	2020

9	Ms. Swati Tangi EE16P03	Voltage Control in Smart Distribution Networks with Distributed Energy Resources	ongoing
10	Mr. Shreeram V Kulkarni 177EE014	Control and Operation of Multiple Distributed Generation Sources in Microgrid	submitted
11	Mr. Shaik Mahmmad Sufiyan	Performance Study of Smart Grid with Wind and PV Based Generation Systems Using Uncertainty Modelling Techniques	ongoing
12	Ms. Nisha K. S	Performance Investigation of Electric Vehicle Charging in a Bipolar DC Microgrid.	ongoing
13	Ms. Biji Varghese	Performance Study of Smart Grid Using the Application of Game Theory.	ongoing
14	Mr. Subhradip Mondal	Power system	ongoing

M-TECH (BY RESEARCH): 1

S. No	Name of the student	Thesis Title/proposal Title and Details of Co-supervisor(s)(If any)	Completed/ongoing
1	Ms. Geethi Krishnan	Intentional islanding of distributed generation systems	Degree Awarded in 2014

M-TECH (POWER AND ENERGY SYSTEMS): Completed: 23

Sl. No	Title of the project	Name of the Student	Year of completion
1	Design and development of enhanced phase locked loop for synchronization of power electronic converters	Ravindra s. (07PS17F)	2008-09
2	A new synchronization scheme for distributed power generation systems	Myla Tirumala (08PS10F)	2009-10
3	Modeling and simulation of fuel cell based distributed generation systems	Santosh Kumar A (08PS15F)	2009-10
4	Development of islanding detection technique for utility interactive distributed generation system	E. Narasimhulu (09PS08F)	2010-11
5	Steady state voltage regulation of distribution system with distributed generators	V. B. Srinivas Kamarsu (09PS24F)	2010-11
6	Utility interactive performance study and control of wind turbine-based dg system with double fed induction generator	K. Kubendra Rao (09PS014F)	2010-11
7	modeling and performance analysis of grid integrated wind generation systems	K. Saikiran Kumar	2011-12

		(10PS14F)	
8	Modeling and performance study of photovoltaic generation system in isolated and grid connected mode of operation	Limi C.K. (10PS17F)	2011-12
9	Modeling and performance analysis of microturbine based distributed generation system	Gaurav Saha (10PS10F)	2011-12
10	Modeling and control of grid connected hybrid wind and PV system	Balachandra M. (11PS06)	2012-13
11	Modeling and Performance Analysis of Wind Power System In Grid Connected Mode of Operation.	Ravishankar Waghmore (11PS21F)	2012-13
12	Performance Analysis and Optimization of Wind Solar Hybrid Generation System Connected to Residential Load	Somashekhar D. Melinamani(11P S23F)	2012-13
13	Modeling and Performance Analysis of Grid Integrated Wind Generation Systems	K. Saikiran Kumar (10PS14F)	2013-14
14	Modeling and Control of Distributed Generation Systems in A Microgrid	SIKHA V S (13PS23F)	2014-15
15	Modeling and Control of wind and solar Hybrid distributed generation system	Rajarathinamala P 12PS23F	2014-15
16	Investigation and suppression of Torque oscillation in Grid connected wind energy conversion system	Nandha Kumar (13PS13F)	2014-15
17	Operation and control of Multiple Distributed Generation Sources In a Microgrid	M. Samhitha (14PS11F)	2015-16
18	Voltage Regulation of Distribution System with Distributed generators by Decentralized control method	Satish V Angadi (14PS20F)	2015-16
19	Modeling and performance study of fuel cell based distributed generation system	Rahul Kumar, 16PS15F	2017-18
20	Performance study and economic analysis of hybrid energy system	V Pushpak 17CM036	2018-19
21	Gesture control for the mobile x-ray system and Bluetooth based remote for X-ray shots.	YASH KHANT (182PS013)	2019-20
22	Modeling and performance analysis of fuel cell based distributed generation system	Rahul Sharma 182PS023	2019-20
23	Efficiency improvement of Synchronous Buck converter under light load conditions	Nikitha Makam (192PS019)	2020-21

24	Bidirectional DC-DC converter with resonant link for electrical vehicle applications	Talari Kiranmai (202PS029)	2021-22
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RESEARCH INTERACTION VISITS:

1. Visited **Energy Management and Microgrid Laboratory** at National University of Singapore (NUS), Singapore for research interaction from 02 to 9th March, 2015.
2. Visited **Energy Reliability & Security (ERISE) Laboratory** at Michigan State University (MSU) U.S.A. for research interaction from September 29 to October 10, 2014.
3. Visited, the **Center for Future Energy Systems (CFES)** at Rensselaer Polytechnic Institute (RPI), Troy New York for research interaction from December 5th to 16, 2011
4. Visiting scholar at the **University of Saskatchewan Canada** in the Department of Electrical and Computer Engineering from November 14, 2008 to December 10, 2008.

RECOGNITIONS AND AWARDS:

1. Member of the selection committee for selecting the candidates for Summer Research Fellowship Program (SRFP-2022)) and Focus Area Science Technology Summer Fellowship (FAST-SF-2022)). This program is Jointly sponsored and supported by Indian Academy of Sciences (IAS), Bengaluru, INSA- New Delhi and NASI Prayagraj.
2. Member of the Board of Studies (BOS), and Member of School Board in School of Engineering, Central University of Karnataka (CUK) Kalaburagi, Karnataka, India (2020 onwards for 3 years)
3. Best Paper award for the paper titled "Power Quality Event Classification Using Long Short-Term Memory Networks "at IEEE DISCOVER 2019 Conference held at Manipal Institute of Technology, Manipal from 11-12 August 2019. A certificate of merit along with a cash prize of Rs. 3000/- is awarded. Authors Santhosh K G Manikonda, Joe Santhosh, Sanjayan Pradeep Kumar Sreekala, Siddharth Gangwani and Dattatraya N Gaonkar
4. Member of the task force committee on distribution and distributed generation, Under National Perspective Plan (NPP) of Ministry of Power Government of India.
5. Best Paper for the oral presentation on "Long Term Dynamic Model of Microturbine Generation System in Grid/Isolated Mode" At 4th World Conference on Applied Sciences, Engineering and Technology (WCSET-2015) at Graduate School of Science and Technology, Kumamoto University, Japan during 24-26 October 2015. (Authors: Sanjeev Nayak and D. N. Gaonkar)
6. POSOCO power System Award for the year 2015 for the M-Tech Thesis "Intentional islanding operation of distributed generation systems (student Ms. Geethi Krishnan (M-Tech (by research) Guide: Dr. D. N. Gaonkar)
7. Regular reviewer of research papers in IEEE Transactions, IET Journals, Journal of

- power components and systems (Taylor and Francis USA) and many other international journals, books and conferences.
8. Executive committee Member of IEEE PES Bangalore section for the year 2014 and 2015
 9. Chaired the Technical session in International Conference on Power and Advanced Control Engineering (ICPACE) organized by B.N. M Institute of Technology Bangalore and IEEE Bangalore section on 12 - 14 Aug, 2015.
 10. Chaired the Technical session in International Conference on Emerging Trends in Engineering (ICETE-2016) organized by department of electronics and communication Engineering, NMAM Institute of Technology, NITTE, Mangalore on 12-13 May,2016.
 11. Chaired the Technical session in 2013 IEEE Conf. on Clean Energy and Technology, 18-20th, November 2013, Langkawi, Malaysia.
 12. Chaired the Technical session in International Conference on Advances in Energy Conversion Technologies, MIT Manipal, India, 23-25th January, 2014
 13. Chaired technical session in, 1ST International Conference on Advances in Energy Conversion Technologies, MIT Manipal, India, 7 – 10 January, 2010.
 14. Member of the Board of Studies (BOS), BVB College of Engineering and Technology Hubballi.

PUBLICATIONS:

Books and chapters

1. Book Titled “Distributed Generation,” Edited by Dr. D.N. Goankar Publishers: IN-TECH Publication, Kirchengasse 43/3, A-1070 Vienna, Austria
2. Book Chapter Title “Performance of Microturbine Generation System in Grid Connected and Islanding Modes of Operation” Edited by Dr. D. N. Gaonkar, Publishers: IN-TECH Publication, Kirchengasse 43/3, A-1070 Vienna, Austria (Www.intechweb.org).
3. Kulkarni S.V., Gatade S., Samanvita N., Gaonkar D.N. (2022) Comprehensive Strategy for Power Quality Improvement of Inverter Based Distributed Generation Systems. In: Shetty N.R., Patnaik L.M., Nagaraj H.C., Hamsavath P.N., Nalini N. (eds) Emerging Research in Computing, Information, Communication and Applications. Lecture Notes in Electrical Engineering, vol 790. Springer, Singapore. DOI: 10.1007/978-981-16-1342-5_14.
4. Swathi Tangi, D. N. Gaonkar “Optimal Phasor Measurement Units Placement in Radial Distribution Networks Using Integer Linear Programming “Book Computer Networks and Inventive Communication Technologies, Pages 1021-1031, Publisher Springer, Singapore, Year 2021

International Journals:

1. Nisha K. S. and Dattatraya N. Gaonkar,” Model Predictive Controlled Three Level Bidirectional Converter with Voltage Balancing Capability for Setting up EV Fast Charging Stations in Bipolar DC Microgrid” Electrical Engineering (Accepted),2022.

2. Shreeram V Kulkarni and Dattatraya N. Gaonkar "Improved droop control strategy for parallel connected power electronic converter based distributed generation sources in an islanded microgrid" *Electric Power Systems Research*, Vol. 201, Pages 107531, December 2021. DOI: 10.1016/j.epsr.2021.107531
3. Shreeram V Kulkarni, Dattatraya N. Gaonkar and Josep M Guerrero "Operation of the microgrid with improved droop control strategy and an effective islanding detection technique for automatic mode switching" *Electric Power Components and Systems*, Pages 1-15, October 2021. DOI:10.1080/15325008.2021.1970289
4. Shreeram V Kulkarni, Vasudha Hegde and Dattatraya N. Gaonkar "A Novel Islanding Detection Technique Based on Piezoelectric Sensors for Grid-Integrated DG Systems" *IETE Journal of Research*, Pages 1-16, November 2021. DOI: 10.1080/03772063.2021.1999336
5. Swathi Tangi and D. N. Gaonkar "Voltage Estimation of Active Distribution Network Using PMU Technology" *IEEE Access*, Vol. 9, Pages 100436-100446. DOI: 10.1109/ACCESS.2021.3097001
6. Bhargavi K. M., Jayalakshmi N. S., D. N. Gaonkar, Ashish Shrivastava and Vinay Kumar Jadoun "A comprehensive review on control techniques for power management of isolated DC microgrid system operation", *IEEE Access*, Vol. 9, Pages 32196-32228, February 2021. DOI: 10.1109/ACCESS.2021.3060504
7. Pramod Bhat Nempu, Jayalakshmi Narayana Sabhahit, Dattatraya Narayan Gaonkar and Vidya Sudarshan Rao "Novel Power Smoothing Technique for a Hybrid AC-DC Microgrid Operating with Multiple Alternative Energy Sources" *Advances in Electrical and Computer Engineering*, Vol. 21, Issue 2, Pages 99-106, May 2021. DOI: 10.4316/AECE.2021.02011
8. Santhosh Manikonda and D. N. Gaonkar "An islanding detection method based on image classification technique using histogram of oriented gradient features", *IET Generation, Transmission & Distribution* Vol.14, No.14, pp 2790-2799, 2021. DOI: 10.1049/iet-gtd.2019.1824
9. Shreeram V Kulkarni and Dattatraya N. Gaonkar "HIL Implementation of an Islanding Detection and an Automatic Mode Switching for Droop Based Microgrid" *International Journal of Power Electronics*, Vol. 15, No. 1, December 2021, PP 37-54
10. Santhosh Manikonda and D. N. Gaonkar "IDM based on image classification with CNN" *IET The Journal of Engineering*, Issue 10, pp. 7256-7262, 2019. DOI: 10.1049/joe.2019.0025
11. Manikonda, Santhosh K.G., Dattatraya Narayan Gaonkar, 'Comprehensive review of IDMs in DG systems', *IET Smart Grid*, Vol 2, No.1, pp. 11-24, 2018. DOI: 10.1049/iet-stg.2018.0096
12. N. S. Jayalakshmi, DN Gaonkar and Sanchit Kumar Jain, "Power smoothing method of PMSG based grid integrated wind energy conversion system using BESS/DSTATCOM" *International Journal of Power Electronics and Drive Systems*, Vol. 10, No. 4, PP 1969-1976, 2019. DOI: 10.11591/ijpeds.v10.i4.pp1969-1976
13. Chethan Raj D, Dattatraya N. Gaonkar and Josep M Guerrero "Power sharing control strategy of parallel inverters in AC microgrid using improved reverse

- droop control". International Journal of Power Electronics Vol.11 No.1, pp.116 – 137, 2020. DOI: 10.1504/IJPELEC.2020.103953
14. Raghavendra P and Dattatraya N Gaonkar, "Coordinated Volt/Var Control: Online Voltage-Profile Estimation in Smart Distribution Networks" IEEE Industry Applications Magazine, Vol. 24, No.2, PP 14–22, 2018. DOI: 10.1109/MIAS.2017.2740474
 15. Chethan Raj D, D. N. Gaonkar and Josep M Guerrero, " Improved Pf/QV and PV/Qf droop controllers for parallel distributed generation inverters in AC microgrid" Sustainable Cities and Society, Vol. 41, PP 421-442, 2018. DOI: 10.1016/j.scs.2018.04.026
 16. N. S. Jayalakshmi, D. N. Gaonkar, A. Naik "Design and Analysis of Dual Output Flyback Converter for Standalone PV/Battery System" International Journal of Renewable Energy Research (IJRER) Vol. 7, No. 3, 1032-1040.
 17. Jayalakshmi N. Sabhahit, Dattatraya N. Gaonkar, and Pramod B. Nempu "Integrated Power Flow and Voltage Regulation of Stand-Alone PV–Fuel Cell System with Supercapacitors" International Journal of Power and Energy Systems, Vol .37, No. 1, 2017. DOI:10.2316/JOURNAL.203.2017.1.203-6251
 18. N. S. Jayalakshmi, D. N. Gaonkar Anandh N and Nimika S, "Design and implementation of single-phase inverter based on cuk converter for PV system", International Journal of Renewable Energy Research (IJRER) 7 (2), 585-591,2017
 19. Chethan Raj D., D.N. Gaonkar "Multiple Inverters Operated in Parallel for Proportional Load Sharing in Microgrid" International Journal of Power Electronics and Drive Systems (IJPEDS), Vol 8 No. 2, 2017. DOI: 10.11591/ijpeds.v8.i2.pp654-666
 20. N. S. Jayalakshmi and D. N. Gaonkar, "A new control method to mitigate power fluctuations for grid integrated PV/wind hybrid power system using ultra capacitors ", International Journal of Emerging Electric Power Systems, Vol. 17, No. 4, pp 451-461, 2016. DOI: 10.1515/ijeeps-2015-0183
 21. Geethi Krishnan and Dattatraya N. Gaonkar, "An adaptive reactive power perturbation-based hybrid islanding detection method for distributed generation systems" International Journal of Power and Energy Systems, Vol. 36, No. 1, 2016. DOI:10.2316/Journal.203.2016.1.203-6189
 22. Santhosha Kumar Ayyappa and Dattatraya Narayan Gaonkar, "Performance analysis of a variable-speed wind and fuel cell-based hybrid distributed generation system in grid-connected mode of operation", Electric Power Components and Systems, Vol. 44, No. 2, pp 142- 151, 2016. DOI: 10.1080/15325008.2015.1102988
 23. N. S. Jayalakshmi, D. N. Gaonkar and P. B. Nempu, "Power control of PV/fuel cell/super capacitor hybrid system for stand-alone applications", International Journal of Renewable Energy Research (IJRER), Vol. 6, No. 2, pp 672-679, 2016.
 24. Raghavendra P. and D. N. Gaonkar, "Online voltage estimation and control for smart distribution networks", Journal of Modern Power Systems and Clean Energy, Vol. 4, No. 1, pp 40-46, January 2016. DOI:10.1007/s40565-016-0187-6

25. V. V. Ramana, D. Jena and D. N. Gaonkar, "An accurate modeling of different types of photovoltaic modules using experimental data", International Journal of Renewable Energy Research (IJRER) Vol. 6, No. 3, pp 970-974, 2016.
26. N. S. Jayalakshmi and D. N. Gaonkar, "Operation of Grid Integrated Wind/PV Hybrid System with Grid Perturbations", International Journal of Renewable Energy Research (IJRER), Vol. 5, No. 4, pp 1106-1111, 2015.
27. Jayalakshmi N. S. and D. N. Gaonkar, "An integrated Control Approach and Power Management of Stand-alone Hybrid Wind/PV/Battery Power Generation System with Maximum Power Extraction Capability", Journal of Distributed Generation & Alternative Energy, Vol. 30, No. 4, pp 15-36, 2015. DOI: 10.1080/21563306.2017.11869107
28. Jayalakshmi N. S. and D. N. Gaonkar, "Modeling and Performance Analysis of Grid Integrated Hybrid Wind and PV Based DG System with MPPT Controllers" International Journal of Distributed Energy Resources and Smart Grids, Vol. 10, No. 2, pp 115-131, 2014.
29. N. S. Jayalakshmi, D. N. Gaonkar, A. Balan, P. Patil and S. A. Raza, "Dynamic Modeling and Performance Study of a Stand-alone Photovoltaic System with Battery Supplying Dynamic Load", International Journal of Renewable Energy Research (IJRER), Vol.4 No. 3, pp 635-640, 2014.
30. N. S. Jayalakshmi and D. N. Gaonkar, "Maximum Power Point Tracking for Grid Integrated Variable Speed Wind based DG System with Dynamic Load", International Journal of Renewable Energy Research (IJRER), Vol.4 No.2, pp 464-470, 2014.
31. N.S. Jayalakshmi and D. N. Gaonkar, "Dynamic Modeling and Performance Study of DC Microgrid in Grid Connected and Isolated Mode of Operation with Maximum Power Extraction Capability", International Journal of Distributed Energy Resources and Smart Grids, Vol. 10, No. 4, pp 281-299, 2014.
32. Sanjeev K. Nayak and D. N. Gaonkar, "Performance study of Distributed Generation System in Grid Connected and Isolated Modes", Journal of Distributed Generation and Alternative Energy, Vol. 29, No.1, pp. 61-80, 2014. DOI: 10.1080/21563306.2014.10781516
33. Jayalakshmi N. S. and D. N. Gaonkar, "Modeling and control strategy for grid integrated distributed generation systems with maximum power extraction capability", International Journal of Engineering, Science and Technology, Vol. 6, No. 2, pp. 101-110, 2014. DOI:10.4314/ijest.v6i2.8
34. Sanjeev K. Nayak and Dattatraya N. Gaonkar, "Modeling and performance analysis of microturbine generation system in grid connected/islanding operation", International Journal of Renewable Energy Research(IJRER), Vol. 2, No. 4, pp 750-757, 2012. DOI:10.1109/PEDES.2012.6484265
35. Sanjeev K. Nayak and D. N. Gaonkar, "Modeling and performance analysis of microturbine generation system in grid connected and islanding modes of operation", International Journal of Distributed Energy Resource, Vol. 8, No. 4, pp.265-283, 2012.

36. Sanjeev K Nayak and D N Gaonkar, "Performance of fuzzy logic based microturbine generation system in connected to the grid and islanding mode of operation", International Journal of Fuzzy Logic Systems, Vol.2, No.3, pp.41-50, 2012. DOI : 10.5121/ijfls.2012.2304
37. R. Shivarudraswamy and D. N. Gaonkar, "Coordinated voltage regulation of distribution network with distributed generators and multiple voltage control devices" , Electric Power Systems and Components, Vol.40, No. 9, pp 1072-1088, 2012. DOI: 10.1080/15325008.2012.675410
38. R. Shivarudraswamy and D. N. Gaonkar, "Coordinated voltage control with reactive power of the distributed generators using genetic algorithm", International Journal of Scientific & Engineering Research. Vol.6 No. 3, pp.1-7, 2012.
39. R. Shivarudraswamy and D. N. Gaonkar, "Voltage control in the distribution system using reactive power participation factor of distributed generators", International journal of Distributed Energy Resources, Vol. 7, No. 3, pp 217-228, 2011.
40. R. Shivarudraswamy and D. N. Gaonkar, "Coordinated voltage control using multiple regulators in distribution system with distributed generators", International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering Vol:5, No:2 pp.193-197, 2011.
41. B.K. Singh, D. N. Gaonkar, R. S. Aithal and Govinda Sharma, "Modeling and performance analysis of solid oxide fuel cell based distributed generation system", International Energy Journal Vol. 12, No.2, pp 123-134, 2011.
42. D. N. Gaonkar and G. N. Pillai, "Operation and Control of Multiple Distributed Generation Systems in the Microgrid", International Journal of Energy Technology and Policy, Vol. 7, No. 4, pp. 325 - 341, 2011. DOI:10.1504/IJETP.2011.039217
43. D. N. Gaonkar, "Investigation on the electromagnetic transients of distributed generation systems in the microgrid", Electric Power Systems and Components, Vol. 38, No. 13, pp 1486-1497, 2010. DOI: 10.1080/15325008.2010.482090
44. B.K. Singh, D. N. Gaonkar and R. S. Aithal, "Development of Solid oxide Fuel Cell Model", International Journal of Applied Engineering Research, Vol. 4, No.8, , pp. 1543-1556 , 2009.
45. D. N. Gaonkar G. N. Pillai and R. N. Patel, "Seamless Transfer of Microturbine Generation System Operation Between Grid Connected and Islanding Modes", Electric Power Systems and Components. Vol. 37, No.2, pp.174-188, December 2008. DOI: 10.1080/15325000802388815
46. D. N. Gaonkar G. N. Pillai and R. N. Patel, "Dynamic performance of microturbine generation system connected to grid", Electric Power Systems and Components. Vol. 36, No. 10, pp. 1031-1047, 2008. DOI:10.1080/15325000802046587
47. D. N. Gaonkar and R. N. Patel, "Grid interconnection of microturbine generation system", International Journal of Energy Technology and Policy, Vol. 5, No.5 pp. 619 – 632, 2007. DOI:10.1504/IJETP.2007.015515

48. D. N. Gaonkar, R. N. Patel and G. N. Pillai, "The steady state voltage rise and its control in distribution system with distributed generation", International Energy Journal Vol. 8, No.3, pp 223-234, September 2007.

IEEE/IEE/Other International Conferences:

1. Ganesh Kudva, Kumar Shivam, Smita Prabhat, NS Jayalakshmi, DN Gaonkar, Vinay Kumar Jadoun "2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore India July 2021, pages 1-6,
2. Swathi Tangi, Dattatraya N Gaonkar, Singuluri Bhargav "Voltage Regulation of Smart Distribution Network using Sensitivity Analysis based DG placement" 2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore India July 2021, pages 1-6,
3. Swathi, T., & Gaonkar, D. N. (2020). "Optimal Phasor measurement units Placement in Radial Distribution Networks Using Integer Linear Programming". 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT-2020), held at RVS Technical Campus, Coimbatore, India on 23rd -24th July 2020.
4. Shreeram V Kulkarni, and Dattatraya N Gaonkar "Investigation of PLLs for Distributed Generation Systems in the Grid-connected Mode of Operation" IEEE International Conference on Emerging Trends in Engineering Science and Technology (ICETEST 2020), 17th to 19th December, 2020, Government Engineering College, Thrissur, India.
5. Shreeram V Kulkarni, Shruti Gatade, N Samanvita, and Dattatraya N Gaonkar" Comprehensive Strategy for Power Quality Improvement of Inverter Based Distributed Generation Systems." Sixth International Conference on 'Emerging Research in Computing, Information, Communication and Application' (ERCICA2020), 25th to 26 September, 2020, NMIT, Bengaluru, India.
6. Nisha K. S.,Dattatraya N. Gaonkar, "Discrete Modelling and Predictive Control of Three Level Bidirectional Buck/Boost Converter for Bipolar DC Microgrid Applications", 16th IEEE India Council International Conference (INDICON), Rajkot (Gujarat), India, 13th to 15th December 2019.
7. Nisha K. S.,Dattatraya N. Gaonkar "Predictive Control of Three Level Bidirectional Converter in Bipolar DC Microgrid for EV Charging Stations" 2020 IEEE International conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE 2020), Cochin, Kerala, India from 2-4 January 2020.
8. Santhosh K G Manikonda, Joe Santhosh, Sanjayan Pradeep Kumar Sreekala, Siddharth Gangwani and Dattatraya N Gaonkar, " "Power Quality Event Classification Using Long Short-Term Memory Networks", 3rd IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2019 DISCOVER), August 11 - 12, 2019, Manipal Institute of Technology, Manipal, India.
9. Santhosh K G Manikonda, Joe Santhosh, Sanjayan Pradeep Kumar Sreekala, Siddharth Gangwani and Dattatraya N Gaonkar, " Power Quality Event

- Classification Using Convolutional Neural Networks on Images”, 1st IEEE International Conference on Energy, Systems and Information Processing (ICESIP 2019) July 04 - 06, 2019, IITDM Kancheepuram, Chennai - 600127, India, ,
10. Santhosh K G Manikonda, Joe Santhosh, Sanjayan Pradeep Kumar Sreekala, Siddharth Gangwani and Dattatraya N Gaonkar, "Power Quality Event Classification Using Transfer Learning on Images", 2019 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing, April 11th to 13th 2019. Kalasalingam Academy of Research and Education, Srivilliputtur, Tamilnadu, India,
 11. Santhosh K G Manikonda, Dattatraya N Gaonkar, 'A New Islanding Detection Method Using Transfer Learning Technique', 8th IEEE International Conference on Power Electronics (IICPE-2018), 13-15 December, 2018, MNIT Jaipur, Rajasthan, India
 12. Santhosh K G Manikonda, Dattatraya N Gaonkar, 'A Novel Islanding Detection Method Based on Transfer Learning Technique Using VGG16 Network', IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS), 26 Feb - 1 Mar 2019, Bhubaneswar, Odisha, India
 13. Santhosh K G Manikonda, D N Gaonkar "Influence of various load types on voltage at PCC and islanding detection in a microgrid", IEEE International Conference on Innovative Technologies in Engineering 2018 (ICITE OU), 11-13 April 2018, Osmania University, Hyderabad, Telangana, India.
 14. Shreeram V Kulkarni, and Dattatraya N Gaonkar "Performance study of microgrid with multiple distributed generation systems" IEEE Workshop on Electronics Power Transmission and Distribution (eT&D-2017), 7-9th November 2017, Aalborg, Denmark.
 15. Shreeram V Kulkarni, and Dattatraya N Gaonkar "Operation and Control of a Microgrid in Isolated mode with Multiple Distributed Generation Systems" IEEE International (Biennial) Conference on Technological Advancements in Power and Energy, 21st to 23 December, 2017, Amrita Vishwa Vidyapeetham, Kollam, Kerala, India.
 16. Santhosh Kumar A and D. N. Gaonkar, "Performance of wind system with battery-UC in grid connected mode", 7th IEEE Power India International Conference (PIICON), Bikaner, Rajasthan, India, 25-27th November, 2016.
 17. Raghavendra P. and D. N. Gaonkar, "Online Volt/Var Control in a Smart Grid with Multiple Distributed Generation Systems", 7th IEEE Power India International Conference (PIICON), Bikaner, Rajasthan, India, 25-27th November, 2016.
 18. N. S. Jayalakshmi, D. N. Gaonkar, S. Adarsh and S Sunil A, "Control Strategy for Power Management in a PV-Battery Hybrid System with MPPT", International Conference on Power Electronics, Intelligent Control and Energy Systems, DTU, New Delhi, India, July 2016.
 19. R Shivarudraswamy, DN Gaonkar, NS Jayalakshmi " GA based optimal location and size of the distributed generators in distribution system for different load conditions," IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), DTU, New Delhi, India, July 2016.

20. Shah Palash Manish Bhai and Dattatraya N. Gaonkar, "Design of binary search ADC using N comparators", IEEE First International Conference on Control, Measurement and Instrumentation (CMI), Kolkata, India, pp. 499-502, 2016.
21. Chethan Raj D. and D. N. Gaonkar, "Frequency and Voltage Droop Control of Parallel Inverters in Microgrid", 2nd International Conference on Control Instrumentation, Energy & Communication (CIEC), University of Kolkata, India, pp. 407-411, 28-30 Jan, 2016.
22. P. Raghavendra and D. N. Gaonkar, "Voltage estimation in smart distribution networks with multiple DG systems", 12th Annual IEEE India Conference (INDICON), pp.1-6, New Delhi, India, 2015.
23. N. S. Jayalakshmi, D. N. Gaonkar, V. Kumar and R. P. Karthik, "Battery-ultracapacitor storage devices to mitigate power fluctuations for grid connected PV system " , 12th Annual IEEE India Conference (INDICON), New Delhi, pp. 1-6 , 2015.
24. D. N. Gaonkar, N. S. Jayalakshmi and P. Raghvendra, "Performance study of roof top wind solar microgrid system in isolated mode of operation", IEEE Power Electronics, Drives and Energy Systems (PEDES), IIT Bombay, India, 16-19th December, 2014.
25. Sanjeev K. Nayak and D N Gaonkar, "Power Management of hybrid fuel cell and microturbine based distributed generation in grid connected mode of operation" , IEEE International Conference On Renewable Energy Research And Applications (ICRERA-2014), Milwaukee, USA. 2014.
26. D. Chethan Raj and D.N. Gaonkar "Coordination control of microgrid", 9th Int. Conference on Industrial and Information Systems (ICIIS), Gwalior, India 2014.
27. S. K. Nayak and D. N. Gaonkar, "Performance of microturbine generation system in grid perturbation condition", IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia), pp. 1 - 6, Bangalore, India, 2013.
28. S. K. Nayak and D. N. Gaonkar, "Fuel cell-based hybrid distributed generation systems, "a review" 8th IEEE International Conference on Industrial and Information Systems (ICIIS), Srilanka, pp. 525 - 530, 2013.
29. Geethi Krishnan and D.N. Gaonkar, " Performance Evaluation of a New Hybrid Islanding Detection Method for a Wind Based DG", IEEE Conf. on Clean Energy and Technology (CEAT), pp. 411-415, Langkawi, Malaysia, 18-20th November 2013.
30. Geethi Krishnan and D. N. Gaonkar, " Control of Grid Connected and Islanding Operations of Distributed Generation Systems with Seamless Transfer Between Modes", IEEE Multi-Conference on Systems and control (MSC), pp. 509-514, Hyderabad, India. 28th-30th August, 2013.
31. Sanjeev K. Nayak and D. N. Gaonkar " Modelling and Performance Analysis of Fuel Cell and Microturbine Based Hybrid Distributed Generation System "A Review", IEEE International Conference ICPEC, pp. 760-766, Dindigul, Tamil Nadu, India, 2013.
32. R. Shivarudraswamy and D. N. Gaonkar," Coordinated voltage control in 3 phase unbalanced distribution system with multiple regulators using genetic

- algorithm", In Proc of 2nd International Conference on Advances in Energy Engineering, Bangkok, Thailand, 27-28 December, 2011. (Published in Energy Procedia, Elsevier, Vol. 14 pp.1199-1206, 2012).
33. Sanjeev K Nayak and D. N. Gaonkar, "Fuzzy Logic Controlled Microturbine Generation System for Distributed Generation", In Proc of 2nd International Conference on Advances in Energy Engineering, Bangkok, Thailand, 27-28 December, 2011. (Published in Energy Procedia, Elsevier, pp.1199-1206, Vol. 14, 2012).
 34. Sanjeev K Nayak and D. N. Gaonkar, "Thermal and Electrical Model of Fuel Cell in Connected to grid/isolated Mode", 5th IEEE Power India Conference (PICONF), Murthal, Haryana, India, 19-22 December, 2012.
 35. A. Santhosha Kumar and D. N. Gaonkar, "Performance Analysis of Variable Speed Wind Energy Conversion System in Grid Connected Mode", 5th IEEE Power India Conference (PICONF), Murthal, Haryana, India, 19-22 December, 2012.
 36. N. S. Jayalakshmi and D. N. Gaonkar, "Dynamic Modeling and Performance Analysis of Grid Connected PMSG based Variable Speed Wind Turbines with Simple Power Conditioning System", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) CPRI, Bangalore, India, 16-19, December, 2012.
 37. Geethi Krishnan and D.N. Gaonkar, " Intentional islanding of distributed generation system with a load shedding algorithm", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) CPRI, Bangalore, India, 16-19, December, 2012.
 38. Sanjeev K Nayak and D N Gaonkar "Modeling and performance analysis of microturbine generation system in grid connected/islanding mode of operation", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) CPRI, Bangalore, India, 16-19, December, 2012.
 39. Jayalakshmi N.S. and D. N. Gaonkar, "Dynamic modeling and control of grid integrated wind generation system using pmsg with mppt algorithm", IEEE-PES Fifteenth International Middle East Power Systems Conference (MEPCON'12) Alexandria, Egypt, 23-25 December, 2012.
 40. A. Santhosha Kumar and D. N. Gaonkar, "Modeling and simulation study of fuel cell and wind energy-based hybrid distributed generation system", Proc. IEEE-PES Fifteenth International Middle East Power Systems Conference (MEPCON'12) Alexandria, Egypt, 23-25 December, 2012.
 41. Jayalakshmi N.S. and D.N. Gaonkar, "Dynamic modeling and analysis of an isolated self excited induction generator driven by a wind turbine," IEEE PES international conference on power signals control and computations (EPSICON-2012), Thrissur, Kerala, India, 3-6th January, 2012.
 42. Jayalakshmi N.S. and D.N. Gaonkar," Performance study of isolated hybrid power system with multiple generation and energy storage units", IEEE international conference on power and energy systems (ICPS-2011), IIT Chennai, India Dec 23-24, 2011.

43. Sanjeev Nayak and D. N. Gaonkar, "Combined model of fuel cell and microturbine based distributed generation system", IEEE PES conference on Innovative Smart Grid Technologies-Middle East (ISGT Middle East), Jeddah, Saudi-Arabia, 17-20 December 2011.
44. Santhosha Kumar A and D. N. Gaonkar," Performance study of Grid connected fuel cell based distributed generation system with ultra capacitor" IEEE PES conference on Innovative Smart Grid Technologies-Middle East (ISGT Middle East), Jeddah, Saudi-Arabia, 17-20 December, 2011.
45. D. N. Gaonkar and Sanjeev Nayak, "Modeling and Performance Analysis of Microturbine Based Distributed Generation System, "A review", In Proc IEEE conference on Energy Tech, Case Western University, Cleveland, USA, 25th to 26th May 2011.
46. D. N. Gaonkar and G. N. Pillai, "Fuzzy Logic Based Coordinated Voltage Regulation Method for Distribution System with Multiple Synchronous Generators", In Proc IEEE Joint International Conference on Power Electronics, Drives and Energy Systems (PEDES) Power India, New Delhi India, 20-23rd December,2010.
47. Birendra Kumar Singh,D. N. Gaonkar and R. S. Aithal, "Solid oxide Fuel Cell based distributed generation : A Comprehensive Review" , 1ST International Conference on Advances in Energy Conversion Technologies, MIT Manipal, India, Jan 7 - 10, 2010.
48. R. shivarudra Swamy and D.N. Gaonkar, "Steady state voltage control using distributed generation allocation in radial network", 1st International Conference on Advances in Energy Conversion Technologies, MIT Manipal, India, Jan 7 - 10, 2010.
49. D. N. Gaonkar and R. N. Patel and G. N. Pillai, "Dynamic model of microturbine generation system for grid connected/islanding operation", in Proc. IEEE International Conference on Industrial Technology (ICIT), Mumbai, India, 15-17th December, 2006.
50. D. N. Gaonkar and R. N. Patel, "Modeling and simulation of microturbine based distributed generation system," in Proc. IEEE Power India Conference, New Delhi, India, 10-12 April, 2006. (cited in more than 80 papers and reports internationally as per Google scholar)
51. D. N. Gaonkar, P. C. Rao and R. N. Patel, "Hybrid method for voltage regulation of distribution system with maximum utilization of connected distributed generation source," in Proc. IEEE Power India Conference, New Delhi, India, April 2006.
52. D. N. Gaonkar and R. N. Patel, "A new chaos based model of an arc furnace for power quality studies", in proc. of the International Conference on Computer Applications in Electrical Engineering Recent Advances (CERA 05), IIT-Roorkee, India, pp. 21-25, Sept. 2005.
53. R. N. Patel, N. Ravi and D. N. Gaonkar, "Utility solutions to power quality problems",in Proc. IEE International Conference on Energy, Information

- Technology and Power Sector, PEITSICON-'05, Kolkata, India, pp. 541-546, Jan. 2005.
54. K. P. Vittal, D. N. Gaonkar and D. B. Fakruddin, "Development of Wavelet Transform Based Numeric Relay for Differential Protection of Power Transformer", in proc. IEEE TENCON 2003. Conference on Convergent Technologies for Asia-Pacific Region Vol. 4, pp.1580 – 1584, Oct. 2003.
 55. D. N. Gaonkar, L. Shenoy and V. V. Thomas, "Use of wavelet transform and neural network for differentiating transient phenomenon in power transformer," in Proc. of International Conferences on Emerging Technologies (ICET-2003), KIIT, Bhubaneswar, Orissa, India 19-21 December 2003.

National Conferences

56. Birendra Kumar Singh, D.N.Gaonkar and R. S. Aithal,' "Isolated mode operation of solid oxide fuel cell based distributed generation system with fuzzy logic controller", In Proc 34th National System Conference (NSC-2010),NITK Surathkal, Karnataka, India, December 10th -12th ,2010.
57. R. Shivarudra Swamy and D.N. Gaonkar, " Coordinated voltage control in distributed system with distributed generators", In Proc 34th National System Conference (NSC-2010), NITK Surathkal, Karnataka, India, December 10th -12th ,2010.
58. Sanjeev K Nayak and D. N. Gaonkar, "Fuzzy logic controlled microturbine for distributed generation systems application' In Proc 34th National System Conference (NSC-2010), NITK Surathkal, Karnataka, India, December 10th -12th ,2010.
59. D. N. Gaonkar, R. N. Patel and G. N. Pillai, "New islanding detection and re-closure technique for converter interfaced distributed generation systems" in Proc. 14 National Power System Conference (NPSC-006), IIT Roorkee, India, 27-29, December 2006.
60. D. N. Gaonkar and K. P. Vittal, "MATLAB based package for transient behavioral study of power transformer," in Proc. National Conference on Recent Trends in Power Management Jamia Milia Islamia, New Delhi, 16-17, August 2003.
61. Rajarathinamala. P and D. N. Gaonkar, "Control strategy of converters in distributed generation systems: review" 7th National Conference on Advances in Energy Conversion Technologies (AECT- 2015), MIT, Manipal, Karnataka, India, January 23 – 24, 2015.
62. Sikha V.S and D. N. Gaonkar "Droop control strategies in microgrid -a review", 7th National Conference on Advances in Energy Conversion Technologies (AECT-2015), MIT, Manipal, Karnataka, India, January 23 – 24, 2015.
63. Nandhakumar .M and D. N. Gaonkar "Development of system identification tool-application", 7th National Conference on Advances in Energy Conversion Technologies (AECT- 2015), MIT, Manipal, Karnataka, India, January 23 – 24, 2015.
64. Raghavendra P, Gaonkar, D. N., Shivarudraswamy, R. (2016). "Estimation and control of voltage profile in smart distribution network." 8th National

Conference on Advances in Energy Conversion Technologies (AECT 2016), MIT Manipal, India.

INVITED/EXPERT LECTURES DELIVERED:

Sl. No	Title of Lecture	Date, Place and Program
1	Application of AI And ML In Operation and Control of Smart Grid- Keynote address and expert lecture	5 days workshop on “Applications of AI and ML in Power and Electronics Engineering Challenges” organized by IEEE Power & Energy Society of RVCE in association with Department of EEE and ECE, R V College of Engineering Bangalore, Karnataka from 21 st September to 25 th September 2021.
2	Operational Challenges of renewable energy dominated future grid- Keynote address and expert lecture	AICTE sponsored one-week Short-Term Training Program on “Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid” during 02-07 August 2021.Organized by department of E&E, NMAM Institute of technology, Nitte, 574110 Karkala Taluk, Udupi Dist. Karnataka State
3	Operation and Control of Smart Grid with Renewable Energy Systems	One-week online FDP on “Materials for Semiconductor Devices and PV Modules”, Sponsored by the Centre of Excellence in Advanced Materials Research (TEQIP-1.2.1) organized by Department of Electrical and Electronics Engineering, B.M.S. College of Engineering, Bangalore, in association with M.J.P. Rohilkhand University, Bareilly U.P. on from March 8th to March 13th ,2021
4	Smart grid operation and control: Issues, challenge Technology	Five-day online faculty development program on “Power Electronic Applications in Electric Vehicles and Energy Storage" from 25th to 29th Jan 2021 in the department of E&E NITK Surathkal, Mangalore, karnataka.
5	Smart grid operation and control: Issues, challenge Technology	Young Research Meet organized by IEEE PES Bangalore section at, Central University of Karnataka (CUK) Kalaburagi, Karnataka on Nov 19, 2020
6	Smart grid operation and control: Issues, challenge Technology	AICTE sponsored Phase-II online STTP on “IoT & Advanced Power Electronics Applications in Smart Grid” in the duration 31st August and 2 September -5 September, 2020 (Total 5 Days). K.K. Wagh Institute of Engineering Education and Research, Nashik, Amrutdham Nashik 422003, Maharashtra
7	Smart grid operation and control: Issues, challenge Technology	One Week Online FDP on “Recent Trends and Emerging Technologies in Distributed Generation Systems”24th to 28th August 2020, In association with Institution of Electronics and Telecommunication Engineers (IETE), Shivamogga center, Department of Electrical & Electronics Engineering, J N N College of Engineering, Shimoga.
8	Smart grid operation and control: Issues,	AICTE Sponsored Six Days Online Short-Term Training Programme On Mitigation Of Power Quality Issues In

	challenge Technology	Distributed Generation Systems Using Custom Power Devices- II 17th - 24th August 2020, Department Of Electrical And Electronics Engineering, R. M.D Engineering College, R.S.M Nagar, Kavaraipeitai-601206, Gummidipoondi Taluk, Tiruvallur Dt, Tamilnadu, India.
9	Smart grid operation and control: Issues, challenge Technology	National Level One Week Online Faculty Development Program On "Contemporary Scenario in Power Systems". organized by the Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru held during 25th July 2020 to 30th July 2020
10	Grid Integrated operation of distributed generation Resource: Issues and challenges	Faculty Development Program (FDP) in association with Visvesvaraya Technological University under TEQIP 1.3, titled Next Generation Energy Technologies scheduled on 12-13 October, 2019 organized by Department of Electrical and Electronics Engineering, Jain College of Engineering, Belagavi, Karnataka
11	1. Grid Integrated operation of distributed generation Resource: Issues and challenges 2. Microgrids Operation and control of: Issues and Challenges	AICTE Sponsored Short Term Training Program on "Control of Power Electronic converters for Smart Power Systems" 15 th -20 July 2019 organized by Department of Electrical and Electronics Engineering, NMAM Institute of Technology, Nitte-574110.
12	Smart Grid operation and control: Demand Response	National Workshop on "Resilient operation of electronically coupled systems in electrical power grid", Sponsored by TEQIP III from July 8 to 12, 2019.organized by Department of Electrical and Electronics Engineering of The National Institute of Engineering, Mysuru, Karnataka
13	Operation and control of microgrids: Issues and Challenges	Key Note address in 5 th National Conference on Power System Engineering 2019 (NCPSE2019) on 3 rd -4 th May 2019, SDM CET Dharwad, Karnataka, India
14	Operation and control of microgrids	One-week faculty development Program on Smart Grid and Internet of Things sponsored by TEQIP III from June 18 to 22, 2018.organized by department of Electrical and Electronics Engineering of The National Institute of Engineering, Mysuru, Karnataka.
15	Operation and Control of Smart Grid with Roof Top Solar Power Plant	3-day work shop funded by TEQIP-2 on "Recent trends on Solar energy application" during 27 and 28 March 2017, Malnad College of Engineering (MCE), Hassan, Karnataka, Fund

16	Operation and Control of Microgrid: Issues And Challenges	3-day work shop funded by TEQIP-2 on "Recent trends on Solar energy application" during 27 and 28 March 2017. Malnad College of Engineering (MCE), Hassan, Karnataka, Fund
17	Grid Integrated Operation Of Distributed Generation Resources: Issues And Challenges	One day Colloquium Funded by TEQIP 2 on "research opportunities in power system" on 25 th march 2017, College of engineering Trikaripur Cheemeni-671313, Kasaragod District, Kerala.
18	Technical writing skills Research projects and proposals	One day work shop organized by Ramaiah University of Applied Sciences (RUAS) Bangalore, India on 20 th October 2016.
19	Wind Based Power Generation Systems: Technology and Issues	Short-term course on "Offshore Renewable Energy (Wave, Wind and Tidal Energy)" Organized by Department of Applied mechanics NITK Surathkal under Global Initiative of Academic Networks (GIAN) program of MHRD India on 7 th - 11 th November, 2016.
20	Operation and control of Microgrid: Issues and challenges	One-week Workshop on Microgrids classification, implementation and recent trends, Organized by BMS College of Engineering, Bangalore, India from 7 th - 10 th December 2015.
21	Intentional Islanding Operation of Distributed Generation Systems	Technical talk organized by Department of Electrical & Computer Engineering National University of Singapore and Power Engineering Chapter - IEEE Singapore Section on Friday, 6 th March, 2015.
22	MICROGRIDS Configuration, operation and control	8 th National Conference on 'Advances in Energy Conversion Technologies (AECT 2016)' organized by Department of E&E, MIT-, Manipal from 28- to 30 th January, 2016.
23	Smart Grid technology for smart city	Invited lecture organized by NMPT Mangalore, Karnataka on the eve of Engineers Day Celebration on 15 th September 2015.
24	Integrated operation of DG systems in a smart grid: Issues and challenges	Invited Lecture in the Short-Term Course On "Advances in Power Electronics and Drives (APED-2015)" Organized by Department of Electrical and Electronics Engineering, UBTD College of Engineering Davangere, Karnataka, Funded by the VTU and Vision Group on Science and Technology (VGST) Govt. of Karnataka Bangalore from June 5 th -8 th , 2015.
25	Smart Grid and distributed generation	Invited lecture organized by K.V.G. College of Engineering Sullia, Sullia, Karnataka on 11 th April 2015.
26	MICROGRIDS: Configuration,	Invited Lecture In The TEQIP (II) Funded Short Term Course On "Distributed Generation and Power Quality (DGPQ2014)

	operation and control	"Organized by Department of Electrical and Electronics Engineering, NIE Mysore, from June 9-13, 2014.
27	Grid Integrated operation of wind-based power generation system	Invited Lecture in The TEQIP (II) Funded Short Term Course On "Research on Renewable Energy Resources Through Matlab/Simulink Models, organized by NITTE Meenakshi Institute of Technology Bangalore in association with KREDL and KPTCL Bangalore.
28	Modeling and Performance study of wind based distributed generation system	Invited Lecture in the NaMPET (Phase-II) Funded workshop on "Power electronics in Distributed generation (PEDG -2014)" Organized by Department of Electrical and Electronics Engineering NITK Surathkal on Feb 7-9, 2014.
29	Grid Interconnection f Distributed Generation Systems: Issues and Challenges	Invited Lecture in The TEQIP Funded Short Term Course On "Power Control and Energy Management Systems" organized By Department of Electrical Engineering National Institute of Technology (NIT) Warangal, On 9-11th May, 2013.
30	Grid Interconnected and Islanding Operation of Distributed Energy Resources	Invited Lecture in The National Level Work Shop On "Modeling and Control of Power Electronic Systems" organized By Department of Electrical Engineering PES Institute of Technology, Bangalore on 18-20th March, 2013.
31	Grid Integration of Distributed Generation Resource: Issues, Modeling and Analysis	Invited lecture in national level workshop Advances in power system and renewable energy technology organized by Department of E and E, Gogate Institute of Technology, Belgum Karnataka on on 22 and 23 Feb 2013.
32	Grid integration of renewable energy resource and seamless transfer of their operational modes	Invited lecture in a short-term course under the aegis of NaMPET Phase II, organized by Department of Electrical Engineering, College of Engineering Trivandrum (CET), Kerala from December 17-19th, 2012
33	Sustainable Technologies for future power generations	Invited lecture on the occasion of Earth Day organized by Institute of Engineers, Mangalore Local Chapter on 24 th April 2012.
34	(i)Grid interconnection of distributed generation sources (ii) Modeling and performance analysis of Microturbine	DTE Sponsored short term training program on "Applications of power electronics in power systems" organized by Rajiv Gandhi Institute of Technology, Govt college of Engineering Kottayam, Kerala on 04 th Jan 2010.

	based distributed generation system.	
35	Fuzzy Logic Controller and Hybrid Methods	Fuzzy Logic, Genetic Algorithm with Wavelet Transformation In Civil Engineering' During 27 th June – 1 st July, 2011.
36	Design of Fuzzy Logic Controller using MATLAB	MHRD Sponsored short term training program on “Artificial Intelligence Application” organized by Department of Applied Mechanics, National Institute of Technology Karnataka Surtahkal.
37	(i) Introduction to Simpower systems tool box of the MATLAB (ii) Development of Matlab model for power system components	MHRD Sponsored short term training program on “Computational Analysis Using Matlab” organized by Department of Electrical Engineering National Institute of Technology Karnataka Surtahkal from 27 th July to 3 rd August, 2009.
38	Grid interconnection of distributed generation systems	AICTE/MHRD Sponsored Summer School Dept. of Electrical and electronics Engg. NITK Surathkal, 11 th August-22 th August, 2008.
39	Microturbine based Distributed generation system	AICTE/MHRD Sponsored Winter School Dept. of Electrical and electronics, Engg. NITK Surathkal, 3 rd May-7 th May, 2009.

WORKSHOP /CONFERENCE/SHORT TERM COURSE/TRAINING PROGRAM ORGANIZED:

Event details	Period	Funding Agency
Work shop on "Renewable Energy Sources and Control" As a Coordinator	from 20 th to 21 st December 2012	CSIR
34 th National Systems Conference (NSC-2010) AS Organizing Secretary	From 10 th -12 th , December 2010	CSIR, DST, ALSTOM
Theme Workshop on “Emerging Trends in Distribution System Operation, Management and Control”. As co-coordinator	From 24 th to 26 th October, 2008.	TEQIP(I)
winter school on “Application of Power Electronics to Non-Conventional Power Generation systems” As coordinator	From 3 rd to 7 th March 2009.	MHRD/AICTE
Recent Trends in the Power System Operation and Control Co-coordinator by Dr. D. N. Gaonkar, Dr. Debashisha Jena and Dr. Tukaram Moger.	11th – 15th June, 2018,	TEQIP-III

"Power System Analysis and Design - DigSilent Power Factory", Co-coordinator by Dr. Tukaram Moger, Dr. D. N. Gaonkar, Dr. Debashisha Jena, Dr. B. Venkatesaperumal	2 nd -6 th July 2018,	DigSilent Delhi+ Self-financed Course
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WORK EXPERIENCE:

Employer	Position Held	Date of Joining	Date of Leaving	Duration
National Institute of Technology Karnataka Surathkal	Associate Professor	16/05/2018	continuing	
National Institute of Technology Karnataka Surathkal	Asst. Professor	12/12/2007	15/05/2018	10 years
Global Academy of Technology Rajrajeshwari Nagar, Bangalore	Senior Lecturer	11/9/2007	11/12/2007	4 months
Manipal Institute of Technology, Manipal Karnataka	Lecturer	28-03-2003	22-7-2004	1 Year 4 months
Baldwin polytechnic, Bangalore	Lecturer	27-11-1998	1/8/2001	2 year 10 Months

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- Fellow of Institute of Engineers (FIE) India
- Senior Member IEEE (USA)
- Life Member System Society of India (SSI)
- Life Member Indian Society for Technical Education

ADMINISTRATIVE ASSIGNMENTS (At the Institute Level):

- Resident Engineer, NITK Surathkal (1/9/2015 to 1/9/2017)
 - Nodal Officer for the Implementation of Grid Connected Roof-Top Solar Plant, NITK Surathkal (12/10/2015 for 1/9/2017)
 - Warden (Mega Tower-1), Hostels, NITK Surathkal (1/7/2014 to 31/12/2017)
 - Faculty In-Charge for Electrical Works (2011-2014)
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