BIO-DATA

1. Name of the Applicant	:	Dr. Monalisa Pattnaik
Full correspondence address	:	Associate Professor Department of Electrical Engineering National Institute of Technology Rourkela, Rourkela, Odisha, Pin: 769008.
2. Email(s) and contact number(s)	:	pattnaikm@nitrkl.ac.in, monalisa.pattnaik@gmail.com 0661-2462423(O), 08895381976 (M)
3. Institution	:	National Institute of Technology Rourkela
4. Date of Birth	:	23-08-1977
5. Gender (M/F/T)	:	F
6. Category (Gen/SC/ST/OBC)	:	Gen
7. Whether differently abled (Yes/No)	:	No

8. Educational Qualifications (Undergraduate Onwards):

Degree	Year	Subject	Institution / University	% of Marks
B. Tech.	1999	Electrical Engineering	CET, Bhubaneswar	74.8 %
M. Tech.	2006	Electrical Engineering (Machine Drives and Power Electronics)	IIT Kharagpur	8.6/10 (CGPA)
Ph. D.	2013	Electrical Engineering	IIT Kharagpur	NA

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award

Ph. D. Thesis Title	Name of	Institute	Year of
	Supervisor		Award
Speed Sensorless Control of a Stand-alone	Prof. D. Kastha	Indian Institute	2013
Variable Speed Constant Frequency Double		of Technology	
Output Induction Generator with Nonlinear and		Kharagpur	
Unbalanced Loads			

SI	Desition hold	Name of the Institute	From	То
SI.	I USILIOII IICIU	Ivalle of the institute	FIOIII	10
NO.				
1	Lecturer	CET, Bhubaneswar	Oct. 1999	Nov. 2000
	(Part Time)			
2	Lecturer	ITB, Bhubaneswar	Nov., 2000	Feb. 2002
3	Lecturer	COEB, Bhubaneswar	Feb. 2002	June 2002
4	Lecturer	ITER, Bhubaneswar	June 2002	July 2006
5	Sr. Lecturer	ITER, Bhubaneswar	July 2006	April 2007
6	Asst. Professor	ITER, Bhubaneswar	April 2007	July 2008
7	Asst. Professor (AGP:6000)	NIT Rourkela	July 2012	May 2013
8	Asst. Professor (AGP:7000)	NIT Rourkela	May 2013	Feb. 2018
9	Asst. Professor	NIT Rourkela	Feb. 2018	Mar. 2023
	Grade-I			
10	Associate	NIT Rourkela	Mar. 2023	Continuing
	Professor			

10. Details of employment (in chronological order)

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received

Sl. No.	Name of Award	Awarding Agency	Year
1.	POSOCO Power System Award	POSOCO & FITT, IIT Delhi	2013
2.	Fellowship_during Ph. D. program	MHRD Govt. of India	2008-2012
3.	Elevated to Senior Member IEEE	IEEE	2019
4.	Best Oral Paper Presentation	IEMRE - 2022	2022
	Award for student paper at IEEE		
	Conference IEMRE - 2022		
5.	Best Oral Paper Presentation	ISSETA-2024	2024
	Award for student paper at		
	Conference ISSETA 2024		
6.	Chair, IEEE IA & PE Joint	IEEE IA & PE Joint Societies	2024
	Societies Chapter-Rourkela		

12. Publications (List of papers published in SCI/Scopus Journals, in year wise descending order)

Sl.No	Author(s)	Title	Name of	Vol.,	Page	Year
			Journal	No.		
1.	P.K. Behera and	Supervisory Power Management	IEEE	Early	1-13	2024
	M. Pattnaik	Scheme of a Laboratory Scale	Transactions on	Access		
		Wind-PV based LVDC Microgrid	Industry			
		Integrated with Hybrid Energy	Applications			
		Storage System				

2	DK D1 1		IFFF	F 1	1 1 2	2024
2.	P.K. Behera and	Hybrid Energy Storage Integrated	IEEE	Early	1-13	2024
	M. Pattnaik	Wind Energy fed DC Microgrid	Transactions on	Access		
		Power Distribution Control and	Sustainable			
		Performance Assessment	Energy			
3.	P.K. Behera and	Design and Real-time	Journal of Power	595	234028	2024
	M. Pattnaik	Implementation of Wind-	Sources, Elsevier			
		Photovoltaic Driven Low Voltage				
		Direct Current Microgrid				
		Integrated with Hybrid Energy				
		Storage System				
1	B Mendi M	A single surrant sonsor based	Applied Energy	257	122402	2024
4.	D. Mondi, M.	A single current sensor based	Electrical	557	122492	2024
	Gonalakrishna	adaptive step size MIPPT control	Elsevier			
	Oopulaki isilila	of a small scale variable speed				
		wind energy conversion system				
5.	P.K. Behera and	Coordinated Power Management	IEEE	69,3	467-477	2023
	M. Pattnaik	of a Laboratory Scale Wind	Transactions on			
		Energy Assisted LVDC Microgrid	Consumer			
		with Hybrid Energy Storage	Electronics			
		System				
6.	B. Mendi, M.	Design, Analysis and Adaptive	International	51.7	3316-	2023
	Pattnaik and S.	MPPT Control of Small Scale	Journal of Circuit	01,7	3330	
	Gopalakrishna	Wind Turbine System	Theory and		5550	
	1	······································	Applications,			
			Willey			
7.	J. Mishra,	A Multi-agent Petri Net Model	Sustainable	55	102859	2023
	P.K. Behera,	Power Management Strategy for	Energy			
	M. Pattnaik, and	Wind-Solar-Battery driven DC	Technologies &			
	B. Chitti Babu	Microgrid	Assessments.			
	Di china Daca		Elsevier			
8	I Mishra and M	On-line Assessment of Wind	Energy Systems	Farly	1-18	2022
0.	Pattnaik	Turbine Emulator with Pitch	Springer	Access	1 10	2022
		Control Mechanism	Springer	Лессьь		
0	I Mishro	An Efficient Supervisory Dower	IEEE Systems	171	768 770	2022
9.	J. WIISHIA, $\mathbf{D} \mathbf{K}$, \mathbf{D} also are	All Efficient Supervisory Fower		1/,1	/08-//9	2022
	P.K. Benera,	Management Scheme for a wind-	Journal			
	M. Pattnaik, and	battery Assisted Hybrid				
	S. Samanta	Autonomous System				
10.	A. Rath, S.	An advanced virtual flux	Inter. Trans. on	31,12	e13174	2021
	Gopalakrishna and	integrated multifold table-based	Electrical			
	M. Pattnaik	direct power control with delay	Energy Systems			
		compensation for active front-end				
		rectifiers				
11.	J. Mishra, S. Das,	A Novel Auto-tuned Adaptive	Inter. Trans. on	31, 10	e12813	2021
	D. Kumar, and M.	Frequency and Adaptive Step-size	Electrical			
	Pattnaik	Incremental Conductance MPPT	Energy Systems			
		Algorithm for Photovoltaic	0, ,			
		System				
12	A Rath A	Power Quality Improvement using	Inter Trans on	31.10	e12784	2021
12.	Kumor S	18 sector Algorithm baged Direct	Flootrice1	51,10	012/04	2021
	$\mathbf{K} \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{u} \mathbf{u} u$	To sector Algorithm based Direct	Electrical Energy Contained			
		rower Control	Energy Systems			
10	and M. Pattnaik		D 11	26	70.00	2021
13.	P. K. Behera, M.	Robust wind turbine emulator	Kenewable	36	79-88	2021
	Balaji, S. K.	design using sliding mode	Energy Focus,			
	Sarangi, and M.	controller	Elsevier			
	Pattnaik					

14.	J. Mishra, M.	Drift Free Perturb and Observe	IEEE Trans. on	35,6	5842-	2019
	Pattnaik, and S.	MPPT Algorithm with Improved	Power		5849	
	Samanta	Performance for SEIG based	Electronics			
		Stand-alone Wind Energy				
		Generation System				
15.	D. Verma,	Output voltage based adaptive	Journal of	10,4	043505	2018
	J.Mishra, and M.	step size MPPT controller with	Renewable and		- 1-13	
	Pattnaik	improved dynamics for stand-	Sustainable			
		alone photovoltaic system	Energy-AIP			
16.	M. Pattnaik,	Harmonic compensation with zero	IEEE Trans. on	60,12	5506-	2013
	D. Kastha	sequence load voltage control in a	Industrial		5514	
		speed sensorless DFIG based	Electronics			
		stand-alone VSCF generating				
		system				
17.	M. Pattnaik,	Unbalance and harmonic voltage	IET Eclectic	7,1	27	2013
	D. Kastha	compensation for a stand-alone	Power		-	
		variable speed constant frequency	Applications		38	
		double-output induction generator				
		supplying non-linear and				
		unbalanced loads				
18.	M. Pattnaik,	Adaptive speed observer for a	IEEE Trans. on	27, 4	1018-	2012
	D. Kastha	stand-alone doubly fed induction	Energy		1026	
		generator feeding nonlinear and	Conversion			
		unbalanced loads				

13. Detail of patents: N.A.

14. Books/Reports/Chapters/General articles etc.: ➢ Book Chapters:

Sl.	Title	Author's Name	Publisher	Year of
No.				Publication
1.	Design and Control of DC-DC	P.K. Behera, M.	Springer,	2022
	Converters in a PV-based LVDC	Pattnaik	Singapore	
	Microgrid			
2.	Design and Analysis of DC-DC	J. Mishra,	Springer,	2022
	Buck Converter with Drift-Free	M. Pattnaik	Singapore	
	MPPT Algorithm for a SEIG-			
	Based Wind Energy Generation			
	System			
3.	Modeling and MPPT Control of a	Mendi Balaji,	CRC PRESS,	2023
	PMSG-based Wind Turbine	Monalisa Pattnaik,	Taylor &	
	System	and Gopalakrishna	Francis Group	
		Srungavarapu		
4.	A Modified Droop based	B. Mishra, and M.	CRC PRESS,	2023
	Decentralized Control Strategy for	Pattnaik	Taylor &	
	an Islanded AC Microgrid		Francis Group	
5.	Optimizing Reliability of PV	R.R. Swain, P.K.	Springer,	2024
	based Microgrid by Integrating	Behera, I. Sarkar and	Singapore	
	Fuel Cell	M. Pattnaik		

15. List of Projects Submitted:

15.1 List of Projects under implementation as PI (Dr. Monalisa Pattnaik):

Sl. No	Title	Cost in Lakh	Start Date	End Date	Role as PI/Co-PI	Agency
1	Design and Development of a Low Power Hybrid PV-Wind Energy System	24.54 Lakhs	Oct. 2021	Oct. 2024	PI	DST (Indo-Sri Lanka Joint Research Program)
2	Droop based Co- ordinated Control of a Triple Active Bridge Interlinking Converter for Hybrid Microgrid with EV Charging Facility	38.94 Lakhs	Dec, 2022	Dec, 2025	PI	SERB, DST (CRG Scheme)

16. Details of Ph.D. Thesis guided as Main Supervisor:

Ph.D Thesis Title	Student	Year of Award
Design and Development of a Wind-Solar-Battery Hybrid Autonomous System	Jyotismita Mishra	2019

17. Details of Short Term Course Organized

SI.	Event Type	Event Title	Key Speakers Invited	Date of Event
No.				
01	FDP & STC	Sustainable Technologies & Energy Management of Hybrid Microgrid (STEMM-2023)	Prof. B. Subudhi, IIT Goa, Prof. WDAS Wajaypala, University of Moratuwa, Sri Lanka	12 – 16 July. 2023
02	FDP & STC	Power Converters for Green Energy and EV Integration (PCGEEI -2024)	Prof. Santanu Kapat, IIT Kharagpur Prof. Ritesh Keshri, VNIT Nagpur	13 – 17 March 2024

> Any other Information

> International Conference Publications

- [1] K. Vikash Varma, M. Pattnaik and I. Sarkar, "Constant Current Charging of EV Battery with Zero Back-Flow Power EPS Control using DAB Converter" accepted in 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFeT 2024), pp.1-6, 2024.
- [2] Srinivasarao Kavuru, **M. Pattnaik**, "Solar Power Optimizer Design and MPPT Control using Flyback Converter", 2nd International Conference on Smart Technologies for Power and Renewable Energy (SPECon 2024), pp.1-6, 2024.

- [3] B. Mendi, M. Pattnaik and S. Gopalakrishna, "Modified MPPT Control of a PMSG-based Standalone Wind Energy Conversion System using Single Voltage Sensor", 2023 IEEE 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA), pp.1-6, 2023.
- [4] P. K. Behera, D. C. Pandey, and M. Pattnaik, "Steady-State Analysis of Dual Active Bridge Converter with Single Phase Shift and Dual Phase Shift Modulation", 3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023), pp.1-6, 2023.
- [5] P. K. Behera, R. Kumar, and M. Pattnaik, "Stability Analysis and Implementation of Interleaved Bidirectional Converter as a High Current Interface in LVDC Microgrid", 3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023), pp.1-5, 2023.
- [6] B. Mishra and M. Pattnaik, "Enhancement of Power Sharing in an Islanded AC Microgrid Using Modified Reverse Droop Control Strategy", 3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023), pp.1-6, 2023.
- [7] K. Vikash Varma, M. Pattnaik and I. Sarkar, "Dual Active Bridge Converter Control and Power Management of PV-Battery fed DC Microgrid for EV Battery Charging System" 3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023), pp.1-6, 2023.
- [8] D. C. Pandey, P. K. Behera, and M. Pattnaik, "Steady-State Analysis of Dual Active Bridge Converter with Single Phase Shift and Dual Phase Shift Modulation", 2023 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp.1-6, 2023.
- [9] R. Kumar, P. K. Behera, and M. Pattnaik, "A Comparative Analysis of Two-phase and Three-phase Interleaved Bidirectional DC-DC Converter", 2023 IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS), pp.1-5, 2023.
- [10] V. Gullipall, P. K. Behera, and M. Pattnaik, "PV-Grid Assisted Uninterruptible Power Supply System for a BLDC Motor Drive", *International Conference on Power Electronics and Energy (ICPEE-2023)*, pp.1-6, 2023.
- [11] P. K. Behera, Prince Kumar Piyush and M. Pattnaik, "Design, Sizing and Implementation of a Parallel Active Battery-Supercapacitor based Hybrid Energy Storage System", "International Conference on Power Electronics and Energy (ICPEE-2023)", pp.1-5, 2023.
- [12] P. K. Mishra, P. K. Behera, and M. Pattnaik, "Comparative Evaluation and Analysis of Different Switching Schemes for a Three-Phase Symmetrical Multilevel Inverter with Reduced Switch Count", 9th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022), pp.1-6, 2022.
- [13] B. Mishra, R. Pradhan, and M. Pattnaik, "A Simple and Novel Tuning Technique for Load Frequency Control in a Multi-Area Microgrid System", *IEEE International Symposium on Sustainable Energy, Signal Processing and Cyber Security, (ICPEE-2022)* pp.1-5, 2022.
- [14] P. K. Behera, and M. Pattnaik, "Power Management of a Laboratory Scale Wind-PV-Battery based LVDC Microgrid", *IEEE IAS Global Conference on Emerging Technologies (GlobConET)*, pp.1-6, 2022.

- [15] B. Mendi, M. Pattnaik and S. Gopalakrishna, "A Speed Sensorless Modified Perturb and Observe MPPT Scheme for Stand-alone PMSG based Wind Turbine System", IEEE IAS Global Conference on Emerging Technologies (GlobConET), pp.1-5, 2022.
- [16] P. K. Behera, B. Mishra, and M. Pattnaik, "Geometrical Interpretation of Incremental Conductance MPPT Algorithm for a Stand-Alone Photovoltaic System," 2021 Innovations in Power and Advanced Computing Technologies (i-PACT), pp.1-6, 2021.
- [17] P. K.Behera, A. Satpathy, and M. Pattnaik, "Design and Implementation of a Single-Band Hysteresis Current Controlled H-Bridge Inverter," *IEEE Sponsored 3rd International Conference on Energy, Power and Environment (ICEPE)*, pp.1-6, 2020.
- [18] P. K. Behera, S. Das, and M. Pattnaik, "Performance comparison between bipolar and unipolar switching scheme for a single-phase inverter based stand-alone photovoltaic system," 2019 IEEE 16th India Council International Conference (INDICON), pp. 1-4, 2019.
- [19] K. Nageswara Rao, D. Kumar, and M. Pattnaik, "Analysis and Experimental Study of Self-Excited Slip-Ring Induction Generator with Variable Capacitance and Rotor Resistance", 2019 Innovations in Power and Advanced Computing Technologies (i-PACT), pp.1-4, 2019.
- [20] J. Mishra, S. Das, D. Kumar, and M. Pattnaik, "Performance Comparison of P&O and INC MPPT Algorithm for a Stand-alone PV System", 2019 Innovations in Power and Advanced Computing Technologies (i-PACT), pp.1-5, 2019.
- [21] K. Pal and M. Pattnaik, "Performance of a Synchronous Buck Converter for a Standalone PV System: An Experimental Study", 2019 1st IEEE International Conference on Energy, Systems and Information Processing, (ICESIP 2019), pp.1-6, 2019.
- [22] M. Balaji, S. K. Sarangi, and M. Pattnaik, "Design of a DC Motor based Wind Turbine Emulator using Sliding Mode Approach", 2019 1st IEEE International Conference on Energy, Systems and Information Processing, (ICESIP 2019), pp.1-5, 2019.
- [23] M. Pattnaik, N. Kumar, "Optimum Mode Operation and Implementation of Class-E Resonant Inverter for Wireless Power Transfer Application", *International Conference on Innovative Smart Grid Technologies (ISGT Asia 2018)*, pp.1-5, 2018.
- [24] J. Mishra, M. Pattnaik, and S. Samanta, "Power Management Scheme for a Wind-Photovoltaic Hybrid Autonomous System with Battery Storage", 2018 IEEE 4th Southern Power Electronics Conference (SPEC), pp. 1-5, 2018.
- [25] J. Mishra, M. Pattnaik, and S. Samanta, "Load Voltage based MPPT Algorithm for a Standalone Wind Generation System", 15th Edition of the IEEE India Council International Conference INDICON 2018, pp. 1-4, 2018.
- [26] J. Mishra, M. Pattnaik, S. Samanta, "Speed sensorless MPPT control of stand-alone SEIG based wind-battery hybrid system", 6th International Conference on Computer Applications in Electrical Engineering Recent Advances 2017 (CERA17), IIT Roorkee, India, Oct. 2017.
- [27] M. Kumar, M. Pattnaik, J. Mishra, "An improved ZVS-PWM buck converter with ZCS auxiliary circuit", *IEEE TENCON 2017*, Penang, Malaysia, pp.1-6, Nov. 2017.
- [28] J. Mishra, M. Pattnaik, S. Samanta, "Performance Evaluation of a Self-Excited Induction Generator for Stand-alone Wind Energy Conversion System" *IEEE Power, Communication and Information Technology Conference (PCITC-2015)*, SOA, Bhubaneswar, India, pp.1-5, Oct. 2015.
- [29] M. Pattnaik and D. Kastha, "Power quality improvement in a speed sensorless stand-alone DFIG feeding general unbalanced non-linear loads," IET 3rd Renewable Power Generation 2014, Naples, Italy, pp.1-6, Sept. 2014.
- [30] M. Pattnaik and D. Kastha, "Adaptive speed observer for a stand-alone doubly fed induction generator feeding nonlinear and unbalanced loads," IEEE PES General Meeting 2013, Vancouver, BC, Canada, pp. 1-8, Jul.2013.

- [31] M. Pattnaik and D. Kastha, "Comparison of MRAS based speed estimation methods for a stand-alone doubly fed induction generator," ICEAS-2011, ITER Bhubaneswar, India, pp.1-6, Dec. 2011.
- [32] M. Pattnaik and D. Kastha, "Control of double output induction machine based stand-alone variable speed constant frequency generator with nonlinear and unbalanced loads," IEEE PES General Meeting 2010, Minneapolis, Minnesota, USA, pp.1-8, Jul. 2010.
- [33] M. Pattnaik and D. Kastha, "Reactive power based MRAS observer for speed sensorless control of double output induction generator," ICIIS-2010, NIT Surathkal, India, pp.556-561, Jul./Aug. 2010.

> Invited Lectures:

- Joined as a project consultant to setup a prototype for "Hybrid Energy Storage based Stand-alone Photovoltaic Power System", related to a DST sponsored project, during 29th April to 3rd May 2019 in the Electronics & Instrumentation Engineering Dept. of NIT Silchar.
- Delivered invited lecture "Overview of Stand-alone Wind Energy Conversion System and Its MPPT Control" on 3rd Dec. 2019 in the Short Term Course "Applications of Soft Computing in Power System (ASCPS)" organized during 2nd -7th December 2019 in the Dept. of EE & EEE, VSSUT, Burla, Odisha.
- 3. Delivered invited lecture "Power Converter Topologies in Wind Energy Conversion System and it's MPPT Control" & Design of Wind Turbine Emulator using DC Motor for Standalone WECS" on 21st and 22nd Feb. 2020 in a 5 days National Workshop on "Modelling and Simulation of Power Electronics Converters for Renewable Energy using MATLAB & Simulink" from 18th -22nd Feb. 2020 in the Dept. of Electrical Engineering, University College of Engineering & Technology, Bikaner.
- 4. Delivered invited lecture "Hardware Implementation of Direct Power Control Scheme on RT-Lab Platform" on 18th June 2020 in "*OPAL-RT's 12th Conference on Real-Time Simulation (RT-2020)*" online mode.
- 5. Delivered invited lecture "An Overview of Power Electronic Converters for Hybrid Renewable Energy System" on 30th Sept. 2020 in the AICTE Training and Learning (ATAL) Academy FDP "*Energy Storage for Sustainable Development*" organized during 26th -30th September 2020 in the Electronics & Instrumentation Engineering Dept. of NIT Silchar, Online mode.
- Delivered invited lecture "Design and Development of Hybrid Renewable Energy System" on 24th Nov. 2021 for Program on "Energy Storage for Sustainable Development" organized by BHEL India, Online mode.
- Delivered invited lecture "Design, Development and Power Management of a Laboratory Scale Hybrid Renewable Energy System" on 24th May, 2022 for Program on "Synergistic Training Program Utilizing Scientific and Technological Infrastructure (STUTI)" in the Dept. of Electrical Engineering, NIT Rourkela, organized by NIT Rourkela in collaboration with Amity University, supported by DST, Government of India.
- 8. Received minor research grant for the proposal entitled **"Design and implementation of a PMSG based standalone wind generation system with battery storage"** for funding under TEQIP-III.
- Served as Session Chair in "International Conference on Power Electronics and Energy (ICPEE-2023), 3rd -5th January 2023", on 4th Jan, 2023.
- 10. Delivered invited lecture "Power Electronic Converters for Hybrid Renewable Energy Systems and Electric Vehicle Applications" on 17th Mar. 2023 for Program on "Five Day National Workshop on Recent Trends in Electric Vehicle: Challenges and Opportunities" organized by Vignan's Institute of Information Technology (A), Visakhapatnam. (Online mode)
- 11. Delivered invited lecture "Design and Real-Time Implementation of a Wind-PV-Battery based Hybrid Renewable Energy System" in the short-term course on "Condition, Assessment of Power

System Equipment (CAPSE-2023)" held during April 11-15, 2023 in the Dept. of Electrical Engineering, NIT Rourkela, organized by NIT Rourkela.

- 12. Invited as distinguished guest and delivered invited lecture "Design, Development and Coordinated Power Management of a Wind Energy Driven LVDC Microgrid" on 24th July 2023 in a SERB and CDAC sponsored five days Symposium on "*Recent Trends in Renewable Energy Systems (RTRES-2023)*" from 24th 28th July 2023, organized at Electronics & Instrumentation Engineering Dept. of NIT Silchar.
- 13. Delivered invited tutorial lecture "Power Electronic Converters for Electric Vehicle Applications and Hybrid Energy Storage Systems" in the IEEE 7th International Conference on Computer Application in Electrical Engineering - Recent Advances (CERA 23), organized by the Department of Electrical Engineering, IIT Roorkee, India held during October 27-29, 2023. (Online mode)
- 14. Visited University of Moratuwa, Sri Lanka during 17th -23rd December 2023 and delivered a talk on **"Design and Development of a Low Power Hybrid PV-Wind Energy System"** on 19th July 2023.

Professional Activities / Assignments

- *i.* Assignments abroad:
- 22nd-25th May, 2018, Singapore, to present paper in International Conference *IEEE PES ISGT ASIA 2018*.
- 5th -8th Nov. 2017, Penang, Malaysia, to present paper in International Conference *IEEE TENCON* 2017.
- 24th 25th Sept. 2014, Naples, Italy, to present paper in International Conference *IET RPG 2014*.
- 21th-25th July 2013, Vancouver, Canada, to present paper in International Conference *IEEE PES GM 2013*.

ii. Reviewer of International Journals

- IEEE Transactions on Energy Conversion
- IEEE Transactions on Industrial Electronics
- International Journal of Energy Research (John Wiley & Sons)
- Electric Power Components and Systems (Taylor's and Francis)

Professional Association:

- Senior Member of IEEE- SM-92125882
- Member of Institution of Engineers (IETE, India)- M-502912