Ahteshamul Haque, Ph.D

Professor

Advance Power Electronics Research Lab
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Research Area: Power Electronics and Its application, Solar PV, Power electronics Converters for Solar PV, Electrical Vehicle etc. Reliability of Power Electronics Converters, Smart Grid, Microgrid, Use of AI & ML techniques in Power Electronics application & Health Sector.

Dr. Ahteshamul Haque is working as Professor in the Department of Electrical Engineering, Jamia Millia Islamia (A Central University) New Delhi. His area of research is Power Electronics and its application in Renewable Energy, drives, electric control system for artificial lighting, Power quality improvements, smart grids, wireless power transfer, electric vehicles, electric traction, smart cities etc. He did B.Tech in Electrical Engineering from AMU and M.Tech from IIT-Delhi. He completed his PhD from Jamia Millia Islamia in the area of power electronics and renewable energy. Prior to Jamia Millia Islamia, he was working in the Power Electronics R&D units of world reputed Multi-National Companies. His inventions are patented and awarded in USA and Europe. He has published and presented his research papers in several international conferences and peer reviewed Journals. Since inception of the Electrical Engineering Department, he received the maximum R&D grant in one project in individual capacity from Ministry of New and Renewable Energy (MNRE) Govt of India. Dr. Haque has established Advance Power Electronics Research Lab and installed a 1kW solar PV based energy conversion system, designed in this lab and the load of Advance Power Electronics Research Lab is getting power from this installation. First time in the history of the department of Electrical Engineering B.Tech students working under his supervision has filed patent and it is awarded. He designed course syllabus of UG and PG levels. In Advance Power Electronics Research Lab research work in the area of Solar based Energy conversion system, embedded system control of power electronics converters, electric control system for artificial lighting, reliability of Power electronics converter, AI based control of Power Electronics Converter etc are carried out. Dr. Haque is senior member of IEEE PELS, IAS, Smart Cities Society and Branch Counsellor IEEE -JMI, and actively involved in IEEE activities at Institution and in Delhi Section. Recently Dr. Haque has received R&D grant under reputed MHRD-SPARC scheme and has collaboration with Aalborg University Denmark. Dr. Haque has signed MoU with National Institute of Solar Energy (NISE), MNRE, Govt of India. **Dr. Haque is awarded with Outstanding Engineer award 2019 by IEEE Power & Energy society for his research and development contribution in the area of Power Electronics and Renewable Energy. Dr. Haque has also won design contest called by Switzerland based R&D company Typhoon and received RTD emulator as prize. He also won most well newsletter award from IEEE Smart Cities Society. He has also secured a place in the world's top 2% of Scientist curated by the Meta Research Innovation Centre (METRICS), Standford University, USA for the year 2022, 2023.**

Dr Haque is working as Associate Guest Editor of IEEE Journal of Emerging and Selected Topics in Power Electronics and IET Power Electronics Journal and Associate Editor of Elsevier- e Prime Journal.

Dr. Haque has total work experience of 20+ years of Industry and academics in the area of Power Electronics and its application.

Google Scholar Link: https://scholar.google.co.in/citations?user=fxEp6KAAAAAJ&hl=en

Webpage of Research Lab: https://apeel.eed.org.in/#/

1. Academic Qualifications

Examination/ Degree	Board / University	Year	Division/ Grade	Subjects
Ph. D.	JMI	2015	-	Power Electronics and Its application in Solar PV plant
M. Tech.	I. I. T., Delhi	2000	First	Electrical Engineering (Power Electronics)
B. Tech	A.M.U., Aligarh	1999	First	Electrical Engineering

2. Research Profile Summary

2.1	Publications	Numbers
1	Papers Published in SCOPUS Indexed	151
2	Papers Published in Web of Science Indexed	87
3	Google Scholar	190
3	Invited Reviewer of reputed Journals (IEEE, IET, Wiley, Elsevier, Springer, Taylor Francis etc Publications)	170
4	Books	06
	Published IET, IEEE, CRC	04
	In Process (Elsevier, IEEE)	02
7	Published Book Chapters	26
8	Patents	
	National (Awarded 03, Published 01)	04
	International (Awarded 02, Published 01)	03
9	Total No of Publications	191

2.2	Sponsored R&D Projects	
	Total No of Sponsored R&D Projects	03
	Total No of Sponsored R&D Projects Completed	03
	Funds Received from NISE, MNRE Govt of India for Conducting Two Training Programmes for DISCOMM Engineers "Rooftop Solar Grid Engineer"	02
	Total R&D Grant Mobilized	Rs. 220.869 Lacs

2.3	Research Collaborations
	International Collaborations: - Aalborg University, Denmark under SPARC R&D Project. - Malaya University, Malaysia. - Victoria University, Australia. - University of West Florida, USA. - Texas A&M University, USA
	National Collaborations: - National Institute of Solar Energy, MNRE, Gurgaon. - MNIT Jaipur.

2.4 Research Guidance		
Supervision	**Completed/ Awarded**	**Ongoing**
Ph.D	**06**	**04**
M.Tech. Dessertation	**28**	**04**
B.Tech/B.E. Projects	**36**	**04**

2.4.1 - PhD Supervision	
Awarded	i- Renewable Energy Based Power Management for Wireless Sensor Networks ii- Power Management of Single Phase Grid Connected Inverter iii- Intelligent Monitoring of Solar Photovoltaic System iv- Optimal Energy Management System of Smart Microgrid for Electric Vehicle Charging Station v- Fault Tolerant Converter for Multiple Inverter Based PV System vi- Investigation on the effect of renewable energy integration on Grid
Ongoing	i- Ultra fast charging of Electric Vehicles ii- Onboard Chargers for Electric Vehicles iii- Controller of EV to Home iv- Intelligent Techniques of converters for EV

2.4.2- Post Graduate M.Tech Dessertations Topics (Few)	
Completed	i- High Quality Electric Control System of Metal Halide High Intensity Discharge lamp ii- Interleaved Boost converter for Solar PV Energy Conversion System iii- Control Circuit for Bidirectional DC-DC Converter in Solar PV Application iv- Electronic Control System for Metal Halide High Intensity Discharge Lamp v- Control and Performance Analysis of Micro inverter for Solar PV Application vi- Synchro converter based inverter control mechanism for Grid Connected Solar PV application vii-A Grid connected Transformerless Inverter controlling two solar PV arrays. viii- Fault Diagnosis of Grid connected Photovoltaic System ix- Anti Islanding for Grid Connected PV System x- Control of Single Phase Solar Inverter xi- Regulation of DC Bus voltage for DC microgrid using PSIM xii- Reactive Power Control Strategies for Grid Connected PV System xiii- Fault Diagnosis of PV module using Thermography and Machine Learning Techniques xiv- PLL Based Grid connected Inverter xv- Real Time Remote Monitoring of Solar Power Plant using IoT xvi- Effect of renewable generation on Grid xvii- Reliability Analysis of Grid Connected Solar Inverter xviii-Energy Management Strategy for Electric Vehicle Charging Station xix- Solar Hydro Based Hybrid Power Generation xx- Islanding Classification with Optimized k-Nearest Neighbors for Three Phase Grid Connected Photovoltaic Systems xxi- Multilevel inverter for Grid Connected PV system
In Progress	i- Control of Parallel Connected Inverters ii- Intelligent control of converters for Ultra Fast Charging of EV iii- Control of Active and Reactive Power flow in grid connected inverters. iv- Fault Detection in grid connected solar inverters.

2.4.3- Research Fellowship	Number of Phd students
Research Scholar selected for PMRF Fellowship	**02**
Research Scholar selected for DST Inspire Fellowhip	**01**
Research Scholars visited Research Lab at Aalborg University, Denmark under SPARC R&D Project	**02**

2.4.4 - Research Lab	State of the Art Advance Power Electronics Research Lab is developed from R&D Grant received as PI – MNRE, Govt of India. **Webpage of Research Lab: https://apeel.eed.org.in/#/**

3. Awards, Associateships etc

Year of Award	Name of the Award	Awarding Organization
2022, 2023	In the world's top 2% of Scientist	Curated by the Meta Research Innovation centre (METRICS), Standford University, USA, Published by Elsevier
2021	Most Well Read News Letter Award	IEEE Smart Cities Society
2019	IEEE 2019 Outstanding Engineer Award	IEEE Power and Energy Society
2019	International Award 10 for 10 for Smart Inverter Model	Typhoon HIL Inc- Switzerland Based Industry.
2015	Best Paper Presentation on Smart Cities	PHD Chamber of Commerce and Industry, New Delhi.
2014	Senior Member	IEEE USA IEEE Power Electronics Society IEEE Circuit & System Society

4. Invited Talks delivered

S.No.	Topic	Date	Inviting Organization	National/ International
1.	IEEE Technical activities and future technical workforce	May 2025	IEEE International Conference, ECCE Asia- 2025, Bengaluru India	International
2.	Role of Automation in Examination System & NEP 2020	Feb 2025	Faculty Induction Program, MMTTC, JMI	National
3.	Intellectual property rights & Copyright issues	January 2025	Faculty Induction Program, MMTTC, JMI	National
4.	How to write Research Paper	May 2024	IEEE JMI Student Branch	National
5.	Unleash the Career with Power Electronics	August 2023	Motivational Talk, EPETECH Solutions, New Delhi	National and International
6.	Power Electronics Converters for Ultra Fast Charging Station	July 2023	Faculty Development Programme, Bellary Institute of Technology, Bellary	National
7.	Soft Computing Based Islanding Detection of Grid Connected Photovoltaic System	Dec 2022	Faculty Development Programme, SRM University	National
8.	Soft Computing Based Islanding Detection of Grid Connected Photovoltaic System	August 2022	Faculty Development Programme, Shrinath Ji Institute of Technology	National

9.	Soft Computing Based Islanding Detection of Grid Connected Photovoltaic System	July 2022	Faculty Development Programme, Integral University, Lucknow	National
10.	New Trends of Energy Usage in our daily life- Challenges & Opportunities	June 2022	Faculty Development Programme Organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi	National
11.	Performance Assessment of Stand alone Transformerless Inverter	June 2022	One week Short Term Course- NIT Srinagar	National
12.	Ways to Choose the Correct Carrier Path using IEEE platform	Feb 2022	IEEE- JMI	National
13.	IPR/Copyright and Licensing Issues in Print & Digital Environment	Dec 2021	UGC -HRDC JMI	National
14.	Power Electronics: From Basics to Research Applications	June 2021	Integral University, Lucknow	National
15.	Fundamentals of Single Phase Grid Connected Inverter	June 2021	Quarbz- Modelling and Simulation of Grid connected PV system using Typhoon HIL Workshop on Real Time Simulator	National
16.	Reliability Aspects of Microgrid System	May 2021	AICTE-ISTE Sponsored Refresher Programme on Microgrid Scenario and Control by Rajasthan Institute of Engineering & Technology.	National
17.	Soft Computing Based Microgrid Mode Detection of Grid Connected Photovoltaic System	April 2021	AICTE-ISTE Sponsored Refresher Programme on Microgrid Scenario and Control by Rajasthan Institute of Engineering & Technology.	National
18.	Power Management of Electric Vehicle Charging Station as Microgrid	April 2021	AICTE-ISTE Sponsored Refresher Programme on Microgrid Scenario and Control by Rajasthan Institute of Engineering & Technology.	National
19.	Control of Hybrid Inverter for Microgrid Operation	April 2021	AICTE-ISTE Sponsored Refresher Programme on Microgrid Scenario and Control by Rajasthan Institute of Engineering & Technology.	National

20.	Power Management of Electric Vehicle Charging Station using Typhoon HIL	April 2021	Abdul Latif Ali Alshaya, Faculty of Engineering & Technology, Maharashtra, India	National
21.	Reactive Power Control of Grid Connected Solar PV Inverter	March 2021	Webinar Lecture Series under Indo-Denmark SPARC R& D Project	International
22.	Soft Computing Based Islanding Detection of Grid Connected Photovoltaic System	March 2021	Webinar Lecture Series under Indo-Denmark SPARC R& D Project	International
23.	Intelligent Control of Converters for Electric Vehicle Charging Station	March 2021	International Workshop on Renewable Energy Sources and Storage Device by Amity University, Noida.	International
24.	IPR & Patent: Intellectual Property Rights (IPR) & Patent	January 2021	UGC-HRD Academic Staff College in Refresher Course for Faculty Induction Programme	National
25.	Intelligent Control of Converters for Electric Vehicle Charging Station	October 2020	AICTE Sponsored FDP on Automotive Technology for Sustainable Future, GRIET, Hyderabad	National
26.	Reactive Power Control of Grid Connected Solar PV Inverter	Sept 2020	AICTE Sponsored –FDP on Renewable Integration Challenges and Opportunities, Invited Talk , Rajasthan Technical University	National
27.	Grid Connected Solar PV System-Technology & Challenges	Sept 2020	AICTE Sponsored- FDP on Renewable Integration Challenges and Opportunities, Invited Talk, , Rajasthan Technical University	National
28.	Soft Computing Based Islanding Detection of Grid Connected Photovoltaic System	August 2020	AICTE Sponsored – FDP on Recent Trends in Electrical Engineering & Soft Computing Applications in Power Systems, Invited Talk , Rajasthan Technical University	National
29.	Overview and Selection Criteria of Solar Inverters and Charge Controllers	February 2020	International Solar Alliance, National Institute of Solar Energy, MNRE, Govt of India	International
30.	Overview and Selection Criteria of Solar Inverters and Charge Controllers	2019	International Solar Alliance, National Institute of Solar Energy, MNRE, Govt of India	International

31.	Grid, Smart Grid- Concept and Challenges	2019	National Institute of Solar Energy, MNRE, Govt of India	National
32.	Design of Grid Connected Solar Inverters	2019	Two Weeks Training Programme on Roof Top Solar Grid Engineer in Collaboration with NISE	National
33.	Solar Resource Assessment, Inverters- Grid Connection, Challenges , Grid Codes	2019	Two Weeks Training Programme on Roof Top Solar Grid Engineer in Collaboration with NISE	National
34.	Overview and Selection Criteria of Solar Inverters	2018	National Institute of Solar Energy, MNRE, Govt of India	National
35.	Design of Solar Inverter as Per IEC Standard	2018	Advance Power Electronics Research Lab, JMI, New Delhi	National
36.	New Trends of Energy Usage in our daily life- Challenges & Opportunities	2018	Faculty Development Programme Organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi	National
37.	New Trends of Energy Usage in our daily life & Its Effect on Society	2018	Faculty Development Programme Organized by UGC Academic Staff College, Jamia Millia Islamia, New Delhi	National
38.	How to write Technical Paper	2016	IEEE - JMI	National
39.	Power Electronics Converters- Operation & Challenges	2015	IEEE JMI	National
40.	Embedded System and Its Importance	2012	COMM- IT, New Delhi	National

5. Academic/Administrative Responsibilities within the University

Position	Faculty/ Institution	From	To
Hony Deputy Controller of Examinations	Jamia Millia Islamia	Nov 2024	Till Now
Member Prospectus Committee	Jamia Millia Islamia	Session 2025-26	
Deputy Coordinator Admissions	Jamia Millia Islamia	Session 2025-26	
Coordinator – B.Tech Induction programme	Faculty of Engineering & Technology	2022	Till now
Member Secretary- Board of Studies	Deptt of Electrical Engineering	2023	Till Now
Coordinator- NPTEL	Deptt of Electrical Engineering	2023	Till now
Coordinator- Academic Bank Credit	Deptt of Electrical Engineering	2022	2023
Worked in NBA Coordination Team	Faculty of Engineering & Technology	In 2019	In 2023
Tech Fest Incharge	Faculty of Engineering & Technology	Feb 2023	
Departmental Examination Incharge	Deptt of Electrical Engineering	May 2020	Till now

Convener- DRC (Special Invitee)	Deptt of Electrical Engineering	Jan 2021	Till Now
Hony. Assistant Controller of Examination	JMI	Aug 2015	April 2020
Member Prospectus Committee	JMI	For Session 2017-18, 2018-19, 2019-20	
Advisor –Subject Association	Deptt of Electrical Engineering	June 2017	May 2020
NAAC Coordinator	Deptt of Electrical Engineering	2012	Till Feb 2015
Annual Report Incharge	Deptt of Electrical Engineering	2012	-
Member of various Project Proposal submission Team i.e. SAP, CPEPA, QIP.	Deptt of Electrical Engineering	2012	2014
M.Tech (CIS, EPSM, Applied Science) Entrance Question Paper Key Checker	Faculty of Engg & Tech	2013 2014	
B.E. (Electrical) Entrance Question Paper Key Checker	Faculty of Engg & Tech	In 2012, In 2013, In 2014	
Assistant Admission Exam Superintendent- B.Tech	Faculty of Engg & Tech	2013	
Assistant Admission Exam Superintendent- M.Tech	Faculty of Engg & Tech	2013 2014	
Observer for Admission Test of Jamia Millia Islamia	JMI	2015	

6. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Award Chair	IEEE Conference ECCE Asia 2025	April 2024	May 2025
Member Organizing Committee	IEEE Conference ECCE Asia 2025	April 2024	May 2025
Member Organizing Committee	IEEE Conference INTELEC 2024	Feb 2024	Aug 2024
Member- Technical Programme Committee	IEEE Conference- NPEC 2023	March 2023	Aug 2023
Track Chair	IEEE Conference- ITEC 2023	April 2023	Aug 2023
Member	IEEE PELS Membership India Committee	May 2022	Till Now
Tutorial Chair	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) 2022	March 2022	Dec 2022
Treasurer	IEEE – Delhi Section : Power Electronics Society, Industrial Electronics Society	Feb 2021	Jan 2022
Tutorial Chair	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) 2020	March 2020	Dec 2020
Technical Programme Committee	IEEE International Conference INDICON 2020	March 2020	Dec 2020
Member Executive Committee	IEEE – Delhi Section : Power Electronics Society	2014	Jan 2022

Member Executive Committee	IEEE – Delhi Section : Power & Energy Society	2014	Till 2019
Examiner of Academic Courses	In Various Engineering Colleges	2012	Till Now
Reviewer	IEEE Transaction on Power Electronics, Industrial Electronics, Photovoltaics, IAS etc	2014	Till Now
Reviewer	Elsevier Journal of Energy, Solar Energy etc	2014	Till Now
Reviewer	Wiley Journals	2014	Till Now
Reviewer	Journals of Taylor Francis & Springer	2015	Till Now
Others Technical Positions			
Branch Counsellor	IEEE JMI Student Branch	2014	Till Now
Faculty Advisor- IEEE	IEEE JMI Power Electronics Society, Student Chapter	2015	Till Now
Faculty Advisor- IEEE	IEEE JMI IAS Society, Student Chapter	2015	Till Now
Faculty Advisor- IEEE	IEEE JMI PES Society, Student Chapter	2015	Till Now

7. Employment Profile

Job Title	Employer	From	To
Professor	Jamia Millia Islamia	Sept 2024	Continuing
Associate Professor	Jamia Millia Islamia	Sept 2021	Sept 2024
Assistant Professor	Jamia Millia Islamia	Jan 2012	Aug 2021
Assistant Professor	P.I.T. Jaunpur	Aug 2011	Dec 2011
Senior Power Electronics Consultant	Kriton Power India Pvt Ltd.	Sep 2008	July 2011
Principal Investigator- Young Scientist F.T. Scheme, DST, Govt of India.	DST, Govt of India. Working Place, Aligarh Muslim University, Aligarh	June 2007	Aug 2008
Power Electronics Consultant	Kriton Power India Pvt Ltd.	Nov 2006	May 2007
Assistant Professor	M.R.C.E. Faridabad	July 2006	Oct 2006
Staff Engineer	Trans Asia Comm, New Delhi	June 2006	July 2006
Design Engineer	OSRAM India Pvt Ltd (A Siemens Company)	March 2001	May 2006

8. Details of Academic Work

(i) Curriculum Development	
B.Tech. & B.E.	- Power Electronics (Theory & Lab) - Electric Drives - Selected Topic in Power Electronics - Programming Languages - Embedded System
M.Tech.	- Advance Power Electronics - Embedded System
Ph.D.	-Selected Topics in Power Electronics -Advance Control of Power Electronics Converter

(ii) Courses Taught	
Ph.D.	-Selected Topics in Power Electronics -Advance Control of Power Electronics Converter
M.Tech.	- Advance Power Electronics - Embedded System - Solar Photovoltaic Technology - Smart Grid Technology - Microgrid Technology
B.Tech. & B.E.	- Power Electronics -Circuit Analysis - Digital Electronics - Network Analysis - Programmable Logic Controller - Programming Languages - Control Systems - Electric Machines and Drives

(iii)Under Graduate/B.Tech & B.E. Project (few)	
Completed	i- Valley Fill Circuit for Power factor improvements. ii- Design and Development of Boost DC – DC converter iii- Simulation of Single phase inverter using various PWM techniques iv- Design and Development of Bidirectional DC-DC converter v- Design and Development of Self Oscillating half bridge inverter for CFL lamps vi- Design of Control circuit for Metal Halide HID lamps vii- Operation and Control of Single Phase Solar Inverter viii- Design of DC-DC Converter for DC Microgrid from Solar PV ix- Automatic Control System for Water filling x- Simulation of Wind Power Renewable energy System using PSIM xi- Design of Solar Inverter using H5-D Topology xii- Control of Single Phase HERIC Topology as Transformerless Inverter. xiii- Control of Converters for Electric Vehicle Charging Stations xiv- Operation of Grid Connected Inverters xv- Control of Converters for Electric Vehicle Operation

	xvi- Priority Based Power Delivery System for EV Charging xvii- Adaptive Control of Grid Connected Solar Inverter xviii- Plugin Hybrid Car Charging using Solar Photovoltaic xix- Performance Evaluation of Boost Converter used in Solar PV application xx- Active Power Factor Correction using Boost DC-DC Converter. xxi- Control of Power Electronics Converter for Electric Vehicle Charging Station xxii- Reliability Analysis of DC-DC Converter xxiii- IoT based smart Agricultural System xxiv- Smart Control for Home Automation
In Progress	i- Artificial Intelligence Based Control of Power Electronics Converter. ii- Control of Power Electronics Converter for Electric Vehicle

(iv) Labs Developed	
UG/PG Lab	- Power Electronics Lab - Circuit Analysis Lab - Advance Power Electronics Research Lab

9. Details of Major R&D Projects (As Principal Investigator/Coordinator)

Title of Project	Funding Agency	Duration		Status	Amount
		From	To	Ongoing/ Completed	(Rs)
Resiliency and reliability of a renewable based power electronics based power system	Ministry of Human Resource Development (MHRD) under SPARC Scheme	15 March 2019	30 Sept 2023	Completed	94.519 Lakhs
Development of novel, efficient and cost effective power electronics based single phase system to convert Solar Energy from solar PV to Electric Energy	Ministry of New & Renewable Energy, Govt of India	Apr 2014	Mar 2017	Completed	106.31 Lakhs
Rooftop Solar Grid Engineer	National Institute of Solar Energy (NISE), Govt of India	14 Jan 2019	24 Jan 2019	Completed	7.3 Lakhs
Rooftop Solar Grid Engineer	National Institute of Solar Energy (NISE), Govt of India	11 Feb 2019	21 Feb 2019	Complete	7.3 Lakhs

Advances in Power Electronics & Renewable Energy Sources	GIAN, MHRD	Feb 2017	Complete	5.44 Lakhs

10. Details of Consultancy Projects

Consultancy Projects Completed/Areas Covered
- Vetting of Off Grid Solar Power Plant from 1 kW to 150 kW - Vetting of Grid connected Solar Power Plant from 1 kW to 150 kW - Vetting of Specifications of Solar Inverters - Design of Off Grid Solar Power Plant - Design of Grid Connected Solar Power Plant - Design of Charge Controllers - Design of Battery Backup - Design of Solar Inverter

11. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars etc

Date(s)	Title of Activity	Level of Event (International/ National/ Local)	Role	Event Organized by	Venue
March 2024	NEP 2020 Orientation & Sensitization Program	National	Participant	MMTTC, JMI	New Delhi
Dec 2022	IEEE Conference PEDES (Power Electronics, Drives & Energy System)	International	Session Chair	MNIT, Jaipur	Jaipur
Dec 2022	IEEE National Power System Conference	International	Session Chair	IIT Delhi	IIT Delhi
Nov 2022	IEEE Workshop on Membership Development	International	Participant	IEEE PELS Society	Hyderabad
Dec 2020	IEEE Conference PEDES (Power Electronics, Drives & Energy System)	International	Session Chair	MNIT, Jaipur	Jaipur
Dec 2020	IEEE Conference Indicon	International	Session Chair	IEEE Delhi Section	Delhi, India

Jan 2020	IEEE Conference PESGRE (Power Electronics, Smart Grid & Renewable Energy)	International	Session Chair	IEEE USA	Kochi, India
Jan 2020	IEEE Conference PESGRE (Power Electronics, Smart Grid & Renewable Energy)	International	Participant & Paper Presenter	IEEE USA	Kochi, India
Dec 2019	IEEE International Transportation and Electrification Conference (iTEC)	International	Session Chair	IEEE USA	Bangalore, India
Dec 2019	IEEE International Transportation and Electrification Conference (iTEC)	International	Participant & Paper Presenter	IEEE USA	Bangalore, India
April 2019	IEEE International Conference on Computer and Information Sciences	International	Participant and Paper Presenter	IEEE Saudi Arabia	Jouf University, Saudi Arabia
March 2017	IEEE International Conference on Power and Embedded Drive Control	International	Participant and Paper Presenter	IEEE Madras Chapter	SSN college, Chennai
Oct 2016	Workshop on Shodh Ganga	National	Participant	UGC Inflibnet Centre, Gandhi Nagar	Gandhinagar, Gujarat
Feb 2016	AICTE Sponsored Refresher Course	National	Participant	Faculty of Engg & Tech	JMI, New Delhi
Dec 2015	Summit on Smart Cities	National	Participant	PHD Chamber of Commerce and Industries, New Delhi.	PHD Chamber, New Delhi

Nov 2015	Seminar on Assessment of present Education System	International	Participant	AIU, UGC	New Delhi
Apr 2015	Workshop on Power Electronics and Renewable Energy	National	Participant	Deptt of Electrical Engg	IIT Kanpur
Jan 2015	Orientation Course	National	Participant	UGC Academic Staff College	JMI, New Delhi
Oct 2014	Curriculum Revision Workshop B.E.	National	Participant and Organizing member	Deptt of Electrical Engineering, Jamia Millia Islamia.	JMI, New Delhi.
Nov 2013	IET Conference on Power Control and Instrumentation	International	Paper	ACEEE, Europe	Hyderabad,
Dec 2012	Workshop of Soft Computing	International	Participant	IIT Delhi	IIT Delhi
Dec 2012	Curriculum Revision Workshop	National	Participant and Organizing Member	Deptt of Electrical Engg	JMI

12. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized

Date	Detail	Role
April 2025	**IEEE Hackathon on webpage design**	**Branch Counsellor**
August 2024	**IEEE VLSI workshop**	**Branch Counsellor**
August 2024	**IEEE Fresher Orientation Session**	**Branch Counsellor**
June 2024	**IEEE Workshop On Direct To Mobile (D2M) Technologies ATSC3 And 5G Broadcast (FeMBMS)**	**Convener**
May 2024	**IEEE SAC Award Function- Delhi Section**	**Branch Counsellor**
April 2024	**IEEE Distinguished Lecture " Intelligent Power Management and Control of Electric Vehicle using Reinforcement Learning for EV Power Optimization", Prof. Rajesh Kumar, Johnsburg University**	**Convener**
Feb 2024	**Hack JMI Competition**	**Branch Counsellor**

Nov 2023	**Cloth Donation Drive**	**Branch Counsellor**
Oct 2023	**IEEE Day Celebration**	**Branch Counsellor**
June 2023	**IEEE Technical Lecture on "Need for Energy Storage" by Prof. Saad Mekhilef, Distinguished Lecture IEEE Power Electronics Society**	**Convener**
March 2023	**IEEE Tech FEST "ENCOMIUM" as a part of Faculty TECH-FEST**	**Branch Counsellor**
Feb 2023	**Workshop on "Open Source platform" organized by IEEE Standard Association**	**Convener**
Dec 2022	**Distinguished Lecture, " Renewable energy Integration and its effect on Microgrid" by Prof. Saifur Rahman, Director, Advance Research Centre, Virginia Tech, USA, IEEE President Elect. IEEE JMI Student Branch, IEEE JMI PES Chapter**	**Convener**
August 2022	**Technical Lecture "Impact of Renewable Energy Integration" by Prof. Saad Mekhilef, Fellow IEEE , Swinburne University, Australia, IEEE PELS JMI**	**Convener**
Nov 2022	**Coordinator-Induction programme for B.Tech Students**	**Coordinator**
Oct 2022	**Technical Lecture on "IMPACT OF IEEE STANDARDS ON IOT" by Dr. Muneer, IEEE Standards Society**	**Convener**
June 2022	**Panel discussion on "Power Electronics- Reliability, Artificial Intelligence are Future Research Direction" by Prof. Frede Blaabjerg, Prof. Saad Mekhilef, Prof. Huai Wang, Prof. Rajesh Kumar, Dr. Sreenivas Karanki, Dr. Ahteshamul Haque**	**Panelist and Convener**
May 2022	**IEEE Distinguished Lecture on " Single Phase Inverter Contro Techniques for Interfacing Renewable energy Sources" by Prof. S K Panda, NUS, Singapore**	**Convener**
June 2021	**Panel discussion on "Solar PV & its Future Challenges" by Prof. Frede Blaabjerg, Prof. Bhim Singh, Prof. Huai Wang, Prof. Rajesh Kumar, Prof. Yongheng Yang.**	**Convener**
March 2021	**Prof. Huai Wang, Aalborg University, Denmark, "The Activation of Passive Components in Power Electronics"**	**Convener**
March 2021	**Prof. Huai Wang, Aalborg University, Denmark, "AI Assisted Condition Monitoring Methods for Power Electronics System"**	**Convener**
March 2021	**Prof. Huai Wang, Aalborg University, Denmark, "Condition Monitoring of Power Electronics System"**	**Convener**
March 2021	**Prof. Huai Wang, Aalborg University, Denmark "Fault Tolerance of Power Electronics Converter"**	**Convener**
March 2021	**Prof. Huai Wang, Aalborg University, Denmark "Towards Reliable Power Electronics"**	**Convener**
March 2021	**Dr. Ariya Sangwongwanich, Aalborg University, Denmark, "Reliability of Power Electronics in PV System"**	**Convener**
March, 2021	**Dr. Subam Sahoo, Aalborg University, Denmark, "Self Healing, Secure Power Electronics System"**	**Convener**
Feb, 2021	**Prof. Frede Blaabjerg, Fellow IEEE, President IEEE PELS Society, "Power Electronics Technology- Quo Vadis"**	**Convener**

Feb, 2021	**Prof. Frede Blaabjerg, Fellow IEEE, President IEEE PELS Society, "Renewables- A Technology Enabled by Power Electronics"**	**Convener**
Feb, 2021	**Prof. Frede Blaabjerg, Fellow IEEE, President IEEE PELS Society, "Wind Power- A Technology Enabled by Power Electronics"**	**Convener**
Jan, 2021	**Prof. Paolo Mattavelli, Fellow IEEE, University of Padova, Italy, " Digital Control in Power Electronics"**	**Convener**
August, 2020	**Dr. P Sanjeev Kumar – Aalborg University, Denmark, "Power Electronics Converter in EV & Microgrid"**	**Convener**
August, 2020	**Prof. Udaya Madawala- University of Auckland, New Zealand "Grid Integration of Electric Vehicles: Wired and Wireless Solution"**	**Convener**
June , 2020	**Prof. Frede Blaabjerg- President IEEE PELS Society, "Climbing Technical Leadership with IEEE PELS"**	**Convener**
May, 2020	**Dr. Yong Heng – Associate Professor, Aalborg University, Denmark, " Reactive power Control of Grid Connected Solar Inverter"**	**Convener**
Feb 2020	**Dr. B. N. Singh – Senior Staff Engineer, John Deer Inc USA, "Wide Bandgap (WBG) power electronics system for heavy duty vehicle".**	**Convener**
Dec 2019	**Prof. Ambrish Chandra- Montreal Canada- "Hybrid Renewable Energy Standalone Systems"**	**Convener**
Nov 2019	**Convener/Organizing Chair of IEEE International Conference on Power Electronics, Control and Automation (ICPECA-2019)**	**Convener & Organizing Chair**
July 2019	**Prof. Huai Wang – Aalborg University, Denmark, " Reliability of Grid Connected Solar Inverters"**	**Convener**
June 2019	**Prof. Akshay Rathore, Fellow IEEE – University of Concordia, Canada, "Single Reference Six Pulse Modulation (SRSPM) for High-Frequency Pulsating DC Link Three-Phase Inverters"**	**Convener**
April 2019	**Dr. Sohail Akhtar – Advisor- Ministry of New and Renewable Energy, Govt of India, "Renewable Energy Status and its future in India".**	**Convener**
Feb 2019	**Dr. Frede Blaabjerg, Fellow IEEE, President IEEE PELS Society – Aalborg University- Denmark, "Efficient and Reliable Power Electronics Converters "**	**Convener**
Jan 2019	**Dr. Qadeer A Khan – IIT Chennai, "Advance Control Techniques for DC-DC Converters"**	**Convener**
Dec 2018	**One day workshop for Trainee Engineers of NISE on Solar Inverter**	**Convener**
Oct 2018	**Control of Solar Inverter using Real Time Simulation Software**	**Convener**
Oct 2018	**Dr. Frede Blaabjerg, Fellow IEEE, President IEEE PELS Society – Aalborg University- Denmark, "Power Electronics- The Key Technology for Renewable Energy System Integration"**	**Convener**
Sept 2018	**Dr. Takako Hashimoto- Director Institute of Economics, Japan- "Data Mining Vs Machine Learning"**	**Convener**
March 2018	**Dr. Arun K Tripathi –Director General, National Institute of Solar Energy, " Status of Solar Power Plant in India"**	**Convener**
April 2017	**Workshop of Operation and Control of Solar Inverters**	**Convener**
Feb 2017	**MHRD GIAN Course, Prof. Akhtar Kalam, University of Victoria, Australia, IET Life Fellow "Advances in Power Electronics & Renewable Energy sources " at Jamia Millia Islamia, New Delhi.**	**Convener & Coordinator**
March 2016	**Dr. Arshan Khan, Ford Motors USA, " Hybrid Electric Vehicle and Power Electronics" at Jamia Millia Islamia, New Delhi**	**Convener**
Jan 2015	**Prof. Akhtar Kalam, University of Victoria, Australia, IET Fellow "Challenges of Embedding Renewable Energy sources " at Jamia Millia Islamia, New Delhi.**	**Convener**

May 2014	**Two days workshop on Embedded System Control for Power Electronics**	**Convener**
Jan 2014	**Prof. Mohammad H. Rashid, University of West Florida, USA, IEEE Life Fellow "The Process of Outcome Based Education in the light of Washington Accord " at Jamia Millia Islamia, New Delhi.**	**Convener**
Jan 2014	**Prof. Mohammad H. Rashid, University of West Florida, USA, IEEE Life Fellow "Recent Trends in Power Electronics" at Jamia Millia Islamia, New Delhi.**	**Convener**

13. Membership of Learned Societies

Type of Membership	Organization	Membership No.
Member IEEE PELS INDIA Membership Committee	IEEE (USA)-PELS	92694540
Senior Member: Power Electronics Society	IEEE (USA)	92694540
Senior Member: Industry Application Society	IEEE (USA)	92694540
Senior Member: Circuit & System Society	IEEE (USA)	92694540
Senior Member: Smart Grid and Internet of Things Society	IEEE (USA)	92694540
Life Member	ISTE	

14. Publications

(i) Patents

S.No.	Title	Inventors	Status-Number/Filed/Published Awarded	Date of Filing/ Award	National/ International
	AWARDED				
1	Artificial Intelligence Enabled Health Monitoring System for Grid Connected Solar Inverter	**Ahteshamul Haque**, KVS Bharath, Mohammed Ali Khan, Rajesh Kumar,	Indian Patent No. 565134 **Awarded**	April 2025	India, National
2	Circuit for Metal Halide HID Lamps	**Ahteshamul Haque**, Ammar Rafiq, Munshareh Shafaq. Altaf Sameen, Hina Parveen	Indian Patent No. 520368 **Awarded**	March 2024	India, National
3	Artificial Intelligence based power controller for low voltage ride through control of grid connected distributed generation networks	**Ahteshamul Haque,** Md Mottahir Alam, I M Mehdi, Nebras Sobahi, I khan, M Alam, K V S Bharath, S Kasim	Awarded US11362539	June 2022	International

4	System for Energy Conversion Including A Bidirectional DC-DC Converter	**Ahteshamul Haque**, Sheena Siddiqui, Azra Malik, Md. Danish Zunnoon	India Patent No. 332187 **Awarded**	Feb 2020	India, National
5	Ballast with Circuit for detecting and eliminating an arc condition	**Ahteshamul Haque**	USA Patent No. 7183721 **Awarded**	Feb 2007	USA, International
	PUBLISHED /FILED				
1	Solar Energy System Based Power Management In Wireless Sensor Nodes For Smart Agricultural Control And Monitoring	Himanshu Sharma, **Ahteshamul Haque**	India Patent No. 201911025137/ DEL/2019 **Published**	July 2019	India, National
2	Ballast with circuit for detecting and eliminating an unwanted arc condition	**Ahteshamul Haque**	Europe Patent No. EP1742517 **Published**	March 2008	Europe , International

(ii) Book

S.No.	Title	Editor	ISBN No	Date	Indexing
1	**Reliability of Power Electronics Converters for Solar Photovoltaic Applications, (Published by IET Press)**	**Ahteshamul Haque,** Frede Blaabjerg, Huai Wang, Yongheng Yang	978-1-83953-116-3	June 2021	SCOPUS
2	**Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance (Published IEEE Press)**	**Ahteshamul Haque, Saad Mekhilef**	978-1-11987-375-4	Nov 2022	SCOPUS
3	**Design and Control of Grid Connected Photovoltaic System (Published by CRC Press)**	**Ahteshamul Haque Mohammed Ali Khan K V S Bharath**	978-1-03218-974-1	April 2023	SCOPUS
4	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Prasad**	978-1-03231-243-9	Nov 2023	SCOPUS

5	**Artificial Intelligence for Power Electronics (Published by IEEE Press)**	**Ahteshamul Haque, Azra Malik, Saad Mekhilef**	978-1-39427-077-4	By July 2025	SCOPUS

(iii) Chapters in Book

S.No.	Title	Editor	Book Title ISBN No	Date	Indexing
1.	**Fundamental of Power Electronics in Smart Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
2.	**Fundamentals of Internet of Things for Smart Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
3.	**Role and Application of Power Electronics, Renewable Energy and IoT in Smart Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
4.	**Smart Grid Concept and technologies for Smarter Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
5.	**Deep learning based autonomous vehicle to vehicle detection of smart traffic monitoring in smart cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
6.	**Integration of Power Electronics in Renewable Energy for Smart Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
7.	**Machine Learning in Power Electronics for Smart Cities**	**Ahteshamul Haque, Akhtar Kalam,**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things**	Sept 2023	SCOPUS

		Himanshu Sharma	**(Published by CRC Press)** 978-1-03231-243-9		
8.	**Machine learning in renewable energy systems for Smart Cities**	**Ahteshamul Haque, Akhtar Kalam, Himanshu Sharma**	**Smart Cities: Power Electronics, Renewable Energy, Internet of Things (Published by CRC Press)** 978-1-03231-243-9	Sept 2023	SCOPUS
9.	**Control of grid connected inverter**	**S M Tripathi, Fransisco**	**Springer Press, "Real time Simulation and HIL testing using Typhon HIL" ISBN: 978-981-99-0223-1**	March 2023	SCOPUS
10.	**Photovoltaic Module Fault. Part 1: Detection with Image Processing Approaches**	**Ahteshamul Haque, Saad Mekhilef**	**IEEE Press, "Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance"** ISBN: 978-1-11987-375-4	Dec 2022	SCOPUS
11.	**Photovoltaic Module Fault. Part II: Detection with Image Processing Approaches**	**Ahteshamul Haque, Saad Mekhilef**	**IEEE Press, "Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance"** ISBN: 978-1-11987-375-4	Dec 2022	SCOPUS
12.	**Fault Classification Approach for Grid Tied Photovoltaic Plant**	**Ahteshamul Haque, Saad Mekhilef**	**IEEE Press, "Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance"** ISBN: 978-1-11987-375-4	Dec 2022	SCOPUS
13.	**Fault Tolerant Converter Design for Photovoltaic System**	**Ahteshamul Haque, Saad Mekhilef**	**IEEE Press, "Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance"** ISBN: 978-1-11987-375-4	Dec 2022	SCOPUS
14.	**IoT based monitoring and Management for Photovoltaic System**	**Ahteshamul Haque, Saad Mekhilef**	**IEEE Press, "Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems**	Dec 2022	SCOPUS

			Performance” ISBN: 978-1-11987-375-4		
15.	**Centralized Intelligent Fault Localization Approach for Renewable Energy based Islanded Microgrid System**	**Shaw,Ghosh, Mekhilef,Balash**	**Elsevier Press “ Application of AI and IoT in Renewable Energy”** ISBN: 978-0-323-91699-8	Jan 2022	SCOPUS
16.	**Power electronics converter for solar PV applications**	**Ahteshamul Haque, Frede Blaabjerg, Huai Wang, Yongheng Yang**	IET Book: **“Reliability of Power Electronics Converters for Solar Photovoltaic Applications”** ISBN: 978-1-83953-116-3	June 2021	SCOPUS
17.	**Priority Based Power Delivery System for Electric Vehicle Charging**	**Abdalmuttaleb M.A Musleh Al-Sartawi Anjum Razzaque**	Springer Book **“Artificial Intelligence Systems and the Internet of things in the Digital Era” ISBN:** 978-3-030-77246-8	June 2021	SCOPUS
18.	**Transfer Learning Based Novel Fault Classification Technique for Grid Connected PV Inverter**	**Saad Mekhilef, M Favorskaya, R K Pandey, R N Shaw**	Springer Book Series **“Innovations in Electrical & Electronics Engineering”** ISBN 978-981-16-0748-6	May 2021	SCOPUS
19.	**Intelligent Control of Converter for Electric Vehicle Charging Station**	**G Carpinelli, P D Falco, F Motolla.**	MDPI Book **“Distributed Energy Storage Devices in Smart Grids”** ISBN 978-3-03928-434-4	April 2020	SCOPUS
20.	**Machine learning classifier for fault classification in photovoltaic system**	**Rajesh Singh, Anita Gehlot**	CRC Press, **Intelligent Circuits and Systems**, 1st Edition, 2021 ISBN: 9781003129103	Aug 2021	Scopus
21.	**Islanding classification and low-voltage ride through for grid connected transformerless inverter**	**Rajesh Singh, Anita Gehlot**	CRC Press, **Intelligent Circuits and Systems**, 1st Edition, 2021 ISBN: 9781003129103	Aug 2021	Scopus
22.	**Fault Detection in Single-Phase Inverters Using Wavelet Transform-Based Feature Extraction and**	**Sukumar Mishra, Yog Raj Sood, Anuradha Tomar**	Springer Book Series **“Applications of Computing, Automation and Wireless Systems in Electrical**	April 2020	SCOPUS

	Classification Techniques		**Engineering"** ISBN: 978-981-13-6772-4		
23.	**Voltage-Balancing Control for Stand-Alone H5 Transformerless Inverters**	**Sukumar Mishra, Yog Raj Sood, Anuradha Tomar**	Springer Book Series **"Applications of Computing, Automation and Wireless Systems in Electrical Engineering"** ISBN: 978-981-13-6772-4	April 2020	SCOPUS
24.	**Modeling and optimisation of a solar energy harvesting system for wireless sensor network nodes**	**B Kantarki, S Oktug**	MDPI Book **"Wireless Sensor and Actuator Networks for Smart Cities"** ISBN 978-3-03897-423-9	March 2019	SCOPUS
25.	**Solar Energy**	**M. H. Rashid**	Elsevier Book **"Electric Renewable Energy Systems"** ISBN: 978-0-12-804448-3	Dec 2015	SCOPUS
26.	**AC-DC Converter**	**M. H. Rashid**	Elsevier Book **"Electric Renewable Energy Systems"** ISBN: 978-0-12-804448-3	Dec 2015	SCOPUS

(iv) Refereed Journal

S.No.	Authors, Title, Publisher, Date	Indexing, Impact Factor/Cite Score
1.	Mohammed Ali Khan, **Ahteshamul Haque,** K V S Bharath**, "**Dynamic Voltage Support for Low Voltage Ride Through Operation in Single-Phase Grid-Connected Photovoltaic Systems" **IEEE Transactions on Power Electronics,** accepted in April 2021, vol. 36, issue 10, Published in Oct 2021 Issue, pp.no. 12102-12111.	SCI, 6.373 / 14.5
2.	K V S Bharath, Ahteshamul Haque, Mohammed Ali Khan, Rajesh Kumar, "Failure Mode Effect Classification for Power Electronics Converters operating in a grid connected System" **IEEE Systems Journal,** Accepted and Published Oct 2022, 10.1109/JSYST.2022.3213071	SCI, 3.931/ 7.7
3.	Mohammed Ali Khan, **Ahteshamul Haque,** K V S Bharath**, "**Intelligent Transition Control Approach for Different Operating Modes of Photovoltaic Inverter" **IEEE Transactions of Industry Applications, *Volume: 58, Issue: 2, March-April 2022.***	SCI, 3.654/8.9
4.	Mohammad Jasim Usmani, **Ahteshamul Haque,** "Power Management of Solar PV systems for PEER load" **IEEE Transactions of Industry Applications,** ***Volume: 57, Issue: 6, Nov.-Dec. 2021.***	SCI, 3.654/8.9

5.	Mohammed Ali Khan, **Ahteshamul Haque**, V.S. Bharath Kurukuru, Mekhilef Saad, Islanding detection techniques for grid- connected photovoltaic systems-A review, **Renewable and Sustainable Energy Reviews**, Volume 154, 2022, 111854, Published in Nov 2021, ISSN 1364-0321.	SCI, 14.982, 30.5
6.	Mohammed Ali Khan, **Ahteshamul Haque**, K V S Bharath, Huai Wang, Frede Blaabjerg, "Standalone operation of distributed generation systems with improved harmonic elimination scheme" **IEEE Journal of Emerging and Selected Topics in Power Electronics,** Volume: 9, Issue: 6, Dec. 2021, pp. 6924-6934.	SCI, 4.728 /11.3
7.	Mohammed Ali Khan, **Ahteshamul Haque,** K V S Bharath, Mekhilef Saad, "Islanding Classification Mechanism for Grid-Connected Photovoltaic System" **IEEE Journal of Emerging and Selected Topics in Power Electronics**, Volume 9, No.2, April 2021, pp. 1966-1975.	SCI, 4.728 /11.3
8.	K V S Bharath, **Ahteshamul Haque,** P S Kumar, Mohammed Ali Khan "Rule based Inferential System for Microgrid Energy Management System" **IEEE Systems Journal**, Volume: 16, Issue: 1, March 2022, pp. 1582-1591.	SCI, 3.931/ 7.7
9.	Mohammed Ali Khan, **Ahteshamul Haque,** K V S Bharath, "Power Flow Management with Q-Learning for a Grid Integrated Photovoltaic and Energy Storage System" **IEEE Journal of Emerging and Selected Topics in Power Electronics,** Accepted April 2022, DOI: 10.1109/JESTPE.2022.3165173	SCI, 4.728 /11.3
10.	Suwaiba Mateen, Ahteshamul Haque, Mohammed Ali Khan, Thomas Ebel, "Unveiling cutting edge innovations toward green vehicle technology" **Elsevier Journal of Energy Reports**, 13, Feb 2025, pp. 3402-3417	SCI, 4.7/8.2
11.	Mohammed Ali Khan, **Ahteshamul Haque**, K V S Bharath, Mekhilef Saad, "Advance Control Strategy with Voltage sag classification for Single Phase Grid Connected Photovoltaic System" **IEEE Journal of Emerging and Selected Topic in Industrial Electronics.** Volume: 3, Issue: 2, April 2022, pp. 258-269	Expected in SCI
12.	Md Qayamuddin, Md Sarwar, A S Siddiqui, **Ahteshamul Haque,** N A Warsi, "A Novel Control Strategy for dual active bridge bidirectional converter for electric vehicle application" **Wiley Transaction of Energy Storage, Published in March 2023, DOI 10.1002/est2.463**	SCI, 0.5
13.	K Bai, V Sindhu, **Ahteshamul Haque,** "Grid Integrated issues of Photovoltaic Systems and Islanding Detection" IETE Journal of Research, Taylor and Francis Group, Published in April 2023 DOI: **https://www.tandfonline.com/doi/full/10.1080/03772063.2023.2195835**	SCI, 1.6/3.1

14.	K Bai, V Sindhu, **Ahteshamul Haque,** "Fault Ride Through approach For Grid Connected Photovoltaic System" Elsevier Journal of E-Prime, Advances in Electrical Engineering, Electronics and Energy. Vol 5, Published in July 2023 DOI: **https://doi.org/10.1016/j.prime.2023.100232**	SCOPUS, /1.5
15.	Mohammad Amir, Md Shahbaz Alam, Ahteshamul Haque, Farhad Ilahi Bakhsh, "Design and Implementation of a reduced switch seventeen-level multilevel inverter for grid integration of battery storage system" **Elsevier Journal of Energy Storage**, vol 86, Accepted 04 Match 2024.	SCI, 11.8/ 8.9
16.	Aakash Sadar, Noor Mohammad, Mohammad Amir, Ahteshamul Haque, "An experimental study on lithium-ion electric vehicles battery packs behavior under extreme conditions for prevention of thermal runaway" **Elsevier Journal of Process Safety and Environmental Protection**" 10 Sep 2024, vol. 191, pp. 1024-1034.	SCI, 11.4/6.9
17.	Suwaiba Mateen, M Amir, **Ahteshamul Haque**, F I Bakhsh, "Ultra Fast Charging of Electric vehicles: A review of power electronics converter, grid stability and optimal battery consideration in multi-energy systems" Elsevier Journal of Sustainable Energy, Grid and networks, Vol 35, published July 2023. DOI: **https://doi.org/10.1016/j.segan.2023.101112**	SCI, 5.4/7.1
18.	M M Alam, **Ahteshamul Haque**, J Hakami, A I Khan, A A Pasha, "An optimal deep belief with buffalo optimization algorithm for fault detection and power loss in grid connected System" Sprimge Journal of Soft Computing, Published in June 2023, **DOI: https://link.springer.com/article/10.1007/s00500-023-08558-2**	SCI, 4.65/6.9
19.	M Amir, Ahteshamul Haque, Atif Iqbal, K V S Bharath, R M Elavasan, G M Shafiullah, "Intelligent Learning Approach for transition control and protection of solar PV integrated electric vehicle charging station" **Elsevier Journal of Sustainable Energy Technologies and Assesments**, Vol 64, 01 March 2024	SCI 12.7/7.1
20.	Izhar Ahmad Saifi, Mohammad Amir, Ahteshamul Haque, Atif Iqbal, "Investigation of Condition Monitoring System for Grid Connected Photovoltaic (GCPV) system with Power Electronics Converters using Machine Learning Techniques, **Elsevier E-Prime Journal – Advances in Electrical Engineering, Electronics and Energy' Accepted Aug 2024**	SCOPUS
21.	M M Alam, **Ahteshamul Haque**, J Hakami, A I Khan, A A Pasha, " Meta surface based solar absorption prediction system using Artificial Intelligence" Hindawi Journal of Mathematics, Published in June 2023, DOI: **https://doi.org/10.1155/2023/9489270**	SCI, 1.4/1.5
22.	Suwaiba Mateen, **Ahteshamul Haque**, K V S Bharath, Mohammed Ali Khan, "Discrete Stochastic Control for Energy Management with Photovoltaic Electric Vehicle Charging Station" **CPSS Transaction on Power Electronics & Applications, Vol7, Issue 2, June 2022**	Expected in SCI

23.	Azra Malik, **Ahteshamul Haque**, K V S Bharath, Mohammed Ali Khan, Frede Blaabjerg, "Overview of Fault Detection Approaches for Grid Connected Photovoltaic Inverters" **Elsevier Journal of E-Prime**, Published 06 April 2022, DOI: https://doi.org/10.1016/j.prime.2022.100035	SCOPUS, Expected in SCI
24.	Mohammed Ali Khan, **Ahteshamul Haque**, K V S Bharath, Frede Blaabjerg, " Optimizing the performance of Single Phase Photovoltaic Inverter using Wavelet Fuzzy Controller" **Elsevier Journal of E-Prime**, Vol. 3, March 2023,100093, DOI: https://doi.org/10.1016/j.prime.2022.100093	SCOPUS, Expected in SCI
25.	K V S Bharath, **Ahteshamul Haque**, Mohammed Ali Khan, Frede Blaabjerg, "Resource Management with Kernel Based Approaches for Grid Connected Solar Photovoltaic Systems" **Elsevier Heliyon Jounal of Energy**, Dec 2021, Vol. 7 https://doi.org/10.1016/j.heliyon 2021.e08609	SCI, 2.85/2.1
26.	**Ahteshamul Haque**, K V S Bharath, Mohammed Ali Khan, "Stochastic methods for prediction of charging and Discharging Power of Electric Vehicles in Vehicle to Grid Environment" **IET Journal of Power Electronics**, Vol. 12, issue.13, pp. 3510-3520, Sept 2019.	SCI, 2.672/5.5
27.	Mohammed Amir, **Ahteshamul Haque, "**Agent based online learning approach for power flow control of electric vehicle fast charging station integrated with smart microgrid" **IET Journal of Renewable Power Generation**, Accepted May 2022, DOI: 10.1049/rpg2.12508	SCI, 3.034/ 7.3
28.	Mohammed Amir, **Ahteshamul Haque**, Zaheeruddin, "Intelligent based hybrid renewable energy resources forecasting and real time power demand management system for resilient energy systems" **Science Progress Journal**. 2023, Volume 105, Issue 4 DOI::10.1177/00368504221132144	SCI, 2.051
29.	M. Amir, Zaheeruddin, **A. Haque.**, KV.S. Bharat, F. I. Bakhsh, S. Mostafa, *"Intelligent Energy Management Scheme based Coordinated Control for Reducing Peak Load in Grid-Connected PV Powered EV Charging Stations"*, **IET Generation, Transmission and Distribution,** 1-18, March 2023. DOI: 10.1049/gtd2.12772	SCI, 2.5
30.	Nebras Sobahi, Ahteshamul Haque, K V S Bharath, Md. Mottahir Alam, Asif Irshad Khan, "Data driven approach for condition monitoring and Improving Power Output of Photovoltaic Systems" **CMC Journal of Computers, Materials and Continua.** Published Nov 2022, DOI: https://doi.org/10.32604/cmc.2022.028340	SCI, 3.806
31.	K V S Bharath, **Ahteshamul Haque,** Mohammed Ali Khan, Subham Sahoo, Azra Malik, Frede Blaabjerg, "A Review on Artificial Intelligence Applications for Grid Connected Solar Photovoltaic Systems" **MDPI Journal of Energies**, August **2021**, *14*(15), 4690 , https://doi.org/10.3390/en14154690	SCI, 3.004/4.7
32.	Md. Mottahir Alam, **Ahteshamul Haque**, Mohammed Ali Khan, Nebras M. Sobahi, I M Mehedi, A I Khan, "Condition Monitoring and Maintenance Management With Grid Connected Renewable Energy Systems" **Tech Science Journal of Computers, Materials and Continua**, Vol.72, No.2, 29 March 2022, *pp.3999-4017.*	SCI, 3.772/ 4.6

33.	K V S Bharath, **Ahteshamul Haque**, Arun Kumar Tripathi, Mohammed Ali Khan, "Condition Monitoring of IGBT modules using online TSEPs and data-driven approach" **Wiley International Transaction on Electrical Energy Systems, Accepted in May 2021,** https://doi.org/10.1002/2050-7038.12969	SCI, 2.86/3.13
34.	Mohammed Ali Khan, **Ahteshamul Haque**, Frede Blaabjerg, K V S Bharath, Huai Wang, "Intelligent Transition Control between Grid Connected and Standalone modes of Three phase Grid Integrated Distributed Generation Systems" **MDPI Journal of Energies**, July **2021**, *14*(13), 3979; https://doi.org/10.3390/en14133979	SCI 3.004/ 4.7
35.	Zoya Fatama, **Ahteshamul Haque**, K VS Bharath, Mohammed Ali Khan, Frede Blaabjerg, "Coordinated reactive power strategy using static synchronous compensator for Photovoltaic Inverters" **Wiley International Transaction on Electrical Energy Systems, accepted in Feb 2020, DOI: 10.1002/2050-7038.12393**, published March 2020, pp. 1-18.	SCI, 1.692/2.7
36.	Himanshu Sharma, **Ahteshamul Haque**, Frede Blaabjerg, "Machine learning in wireless sensor networks for smart cities: A survey" **MDPI Journal of Electronics**, Vol. 10, 10 (09), April 2021. https://doi.org/10.3390/electronics10091012	SCI, 2.412/1.9
37.	K V S Bharath, **Ahteshamul Haque** Frede Blaabjerg, Mohammed Ali Khan, "A Novel Fault Classification Approach for Photovoltaic Sysems" **MDPI Journal of Energies, 2020, 13, 308, pp. 1-17, Jan 2020.**	SCI, 2.702/3.8
38.	Mohammed Ali Khan, **Ahteshamul Haque,** K V S Bharath, "Intelligent Control of a novel Transformerless inverter topology for photovoltaic applications" **Springer Journal of Electrical Engineering, Vol. 102, pp. 627-641, Dec, 2019. DOI: 10.1007/s000202-019-00899-2.**	SCI, 1.18/2.3
39.	Mohammed Ali Khan, **Ahteshamul Haque**, K V S Bharath, "Performance assessment of Standalone Transformerless inverter", **Wiley International Transaction of Electrical Energy systems, pp.1-20, DOI: 10.1002/2050-7038.12156, Aug 2019**	SCI, 1.692/2.7
40.	KVS Bharath**,** Frede Blaabjerg, **Ahteshamul Haque**, M A Khan**, "**Model-Based Data Driven Approach for Fault Identification in Proton Exchange Membrane Fuel Cell", **MDPI Journal of Energies, Vol. 13, issue. 12, pp. 3144, June 2020.**	SCI, 2.702/3.8
41.	**Ahteshamul Haque,** AA Al-Shareef, Asif Irshad Khan, Md. Mottahir Alam, KVS Bharath, Kashif Irshad, "Data Description Technique-Based Islanding Classification for Single-Phase Grid-Connected Photovoltaic System" **MDPI Journal of Sensors, Vol. 20, issue. 11, pp. 3320, July 2020**	SCI, 3.275/5
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