1. PERSONAL DATA

1.	Name	Zaheeruddin
2.	Designation	Professor and former Head
3.	Office Address	Department of Electrical Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, Jamia Nagar, New Delhi – 110025
4.	Permanent Address	C-19A, Johri Farm, Jamia Nagar New Delhi – 110025
5.	Telephone (Residence):	91-11-**26316151**
	Telephone : Extn	91-11-26981717 Extn: 2352
	Mobile:	**91-9910170032**
6.	Email (Primary): zaheeruddin@jmi.ac.in	Email (Secondary)
7.	Field(s) of Specialization:	Soft Computing (Electrical Engineering)

2. ACADEMIC QUALIFICATIONS

First University Degree: (*Bachelor's or equivalent*)

Name of the Degree	:	**B. Sc. Engg.**
Year of award of Degree	:	**1982**
College (or Faculty)	:	**Z. H. College of Engineering & Technology**
Name and location of University	:	**Aligarh Muslim University, Aligarh**
State	:	**U.P.**
Country	:	**India**
Specialization	:	**Electronics & Communication**

Second University Degree: (*Master's or equivalent*)

Name of the Degree	:	**M. Sc. Engg**.
Year of award of Degree	:	**1988**
College (or Faculty)	:	**Z. H. College of Engineering & Technology**
Name and location of University	:	**Aligarh Muslim University, Aligarh**
State	:	**U.P.**
Country	:	**India**
Specialization	:	**Electronics & Communication**
Title of Dissertation	:	**RUBEX-F: A Rule-Based Expert System for Fever**

Third University Degree: (*Doctorate or equivalent*)		
Name of the Degree	:	**Ph. D.**
Year of award of Degree	:	**2002**
College (or Faculty)	:	**School of Computer & Systems Sciences**
Name and location of University	:	**Jawaharlal Nehru University, New Delhi**
State	:	**Delhi**
Country	:	**India**
Specialization	:	**Soft Computing**
Title of Thesis	:	**A Soft Computing Model for Noise Pollution**

3. ACADEMIC EMPLOYMENT HISTORY

Job Title	Employer	From	To
Lecturer (Ad-hoc)	Jamia Millia Islamia (New Delhi, India)	Dec. 1986	Dec. 1987
Lecturer (Ad-hoc)	Jamia Millia Islamia (New Delhi, India)	Oct. 1988	May 1990
Lecturer (Permanent)	Jamia Millia Islamia (New Delhi, India)	May 1990	Feb. 1995
Reader	Jamia Millia Islamia (New Delhi, India)	Feb. 1995	Feb. 2003
Professor	Jamia Millia Islamia (New Delhi, India)	Feb. 2003	Continued

4. ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES WITHIN THE UNIVERSITY

Position	Faculty/Department/Centre/Institution	From	To
Head	Electrical Engineering Department	2011	2014
Member	Academic Council	1999	2002
Member	Academic Council	2009	2014
VC nominee in various Selection Committee Meetings	Jamia Millia Islamia	2006	Continue
VC nominee in various Screening Committee Meetings	Jamia Millia Islamia	2006	Continue
Coordinator (M. Tech. in Control and Instrumentation Systems)	Electrical Engineering Department	2012	Continue
Superintendent for conducting B.Tech./B.E. Entrance Test	Faculty of Engineering & Technology	2005	2014
Assistant Superintendent of B.Tech/B.E. Annual/Comptt. Examination	Faculty of Engineering. & Technology	1993	1999

5. ACADEMIC/ADMINISTRATIVE RESPONSIBILITIES OUTSIDE THE UNIVERSITY

S.No.	Position	Institution	From	To
1.	Member of Expert Committees of highest confidential Govt body for various interview Board	Confidential	2013	Continue
2.	Member of NBA Expert Committees for accreditation of various Engg. Colleges	NBA	2014	Continue
3.	Member of UGC Expert Committees for approval of various universities	UGC	2014	Continue
4.	Member of Expert Committees in UGC for various interview board	UGC	2011	Continue
5.	AICTE nominee in Expert Committees of various universities	AICTE	2016	Continue
6.	Member of Judicial Enquiry Committee	Delhi University	Mar 2012	Nov 2012
7.	Expert of Selection Committee Meeting	Various Engg. Colleges and universities	2006	Continue
8.	Expert of Three Member Ph. D. Committees	JNU and other universities	2006	Continue
9.	External Examiners of Ph. D. Thesis and M. Tech. Dissertation	Various Universities/ IITs/NITs	2006	Continue

6. WORKSHOP/CONFERENCE/SEMINARS ORGANIZED (AS CHAIRMAN/ORGANIZING SECRETARY/CONVENER)

Title of Activity	Level of Event	Date (s)	Role	Venue
IEEE International Conference on Power Electronics, Control, and Automation	International	November 16-17, 2019	Technical Chairman	Jamia Millia Islamia
Workshop on Curriculum Revision	National	December 03-04, 2012	Chief Coordinator	Jamia Millia Islamia
Staff Development Programme	National	December 09-23, 2011	Chairman	Jamia Millia Islamia
Short Term Training Programme (**STTP**) on "MATLAB and Soft Computing"	National	December 17-31, 2004	Course Coordinator	Jamia Millia Islamia

7. AWARDS/FELLOWSHIPS

Year of Award	Name of the Award	Awarding Organization	From (Month/Year)	To (Month/Year)
2003	Visiting Researcher	University of Missouri-Columbia, USA	May 2003	May 2003
2004	Visiting Fellowship Award	Indian National Science Academy (**INSA**)	May 2004	July 2004

8. ACADEMIC CONTRIBUTION IN THE UNIVERSITY

S. N.	Curriculum Developed/Revised
1.	A proposal to start QIP programme in the Department of Electrical was submitted to AICTE as a Coordinator in 2011. Fortunately the Department got approval to start first QIP Programme in the Faculty of Engineering and Technology in 2016.
2.	Started M. Tech Program (Control and Instrumentation) in the Department of Electrical Engineering, Faculty of Engineering and Technology in 2012.
3.	Developed the course curriculum of M. Tech Program in Control and Instrumentation Systems as the founder coordinator for submission to AICTE to get its approval. The curriculum was framed keeping in view the industrial and market needs.
4.	Revised the whole course curriculum for two Post Graduate Programmes in 2012 (a) M. Tech. (Electrical Power system management) (b) M. Tech. (Control and Instrumentation Systems)
5.	Revised the course curriculum of B. Tech. Programme in Electrical Engineering in 2012
6.	Organized a two days workshop on curriculum revision of Electrical Engineering in 2012. First day workshop was dedicated for B. Tech. (Electrical) curriculum revision and second day of workshop was for M. Tech. (Power System Management) and M. Tech. (Control and Instrumentation) curriculum revision.

9. MEMBERSHIP OF LEARNED SOCIETIES

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Fellow	The Institution of Electronics and Telecommunication Engineers (IETE), India.	F-134032/2000
Life Member	World Federation of Soft Computing, U.S.A.	--------
Life Member	The Institution of Engineers (IE, India), India.	M/119750/3/2000
Life Member	Computer Society of India (CSI).	LM-00058907/2000
Life Member	Indian Society for Technical Education (ISTE).	LM-4601/1989
Life Member	The Indian Science Congress Association (ISCA).	LM-8611/2000
Life Member	Indian Chapter of The International Centre For Theoretical Physics (Indian Chapter of ICTP).	ICICTP/99/320/1999
Life Member	National Book Trust, India	DEL/IND/22454/2000

10. INVITED TALKS DELIVERD

S. No.	Topic	Date	Inviting Organization
1.	Fuzzy Logic and IoT	June 01, 2020	Jawaharlal Nehru University (JNU), New Delhi-67
2.	Soft Computing and Fuzzy Logic	Jul. 19, 2017	Netaji Subhas Institute of Technology (NSIT) Delhi
3.	Linguistic Variables and its Applications	Sept. 25, 2017	Manav Rachna International University, Faridabad, Haryana
4.	Recent Advances in Soft Computing	Feb. 25, 2016	Galgotia College of Engineering and Technology, Greater Noida, UP
5.	Soft Computing	Mar. 31, 2015	IP College for Women, University of Delhi

6.	Fuzzy Logic Fundamentals	June 11, 2014	Dr. B. R. Ambedkar National Institute of Technology (NIT) Jalandhar
7.	Fuzzy Logic	Aug. 01, 2014	Jawaharlal Nehru University (JNU), New Delhi-67
8.	Fuzzy Logic Applications	Aug. 19, 2014	Jawaharlal Nehru University (JNU), New Delhi-67
9.	Basic Concepts in Fuzzy Logic	Dec. 24, 2014	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
10.	Soft Computing in Management	Feb. 02, 2013	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
11.	Soft Computing	Jan. 11, 2012	Ambedkar Institute of Advanced Communication Technologies & Research, Geeta Colony, Delhi-31
12.	Fuzzy Logic in Economics and Finance	Sep. 15, 2012	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
13.	Optimization Techniques	Dec. 20, 2012	G. L. Bajaj Institute of Technology and Management, Greater Noida, UP
14.	Genetic Algorithm	Dec. 22, 2012	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
15.	Fuzzy Logic in Data Mining	Mar. 04, 2011	Indira Gandhi Institute of Technology (IGIT), GGS Indraprastha University, Delhi
16.	Neural Networks in Data Mining	Mar. 05, 2011	Indira Gandhi Institute of Technology (IGIT), GGS Indraprastha University, Delhi
17.	Neuro-Fuzzy Computing	Sept. 12, 2011	Jawaharlal Nehru University (JNU), New Delhi-67
18.	Fuzzy Logic Toolbox	Oct. 22, 2011	G. L. Bajaj Institute of Technology and Management, Greater Noida, UP
19.	Advances in Fuzzy Logic	Nov. 04, 2011	Maharaja Surajmal Institute of Technology (MSIT), Janakpuri, New Delhi-110058
20.	Advances in Neural Networks	Nov. 05, 2011	Maharaja Surajmal Institute of Technology (MSIT), Janakpuri, New Delhi-110058
21.	Soft Computing in Electrical Engineering	Dec. 11, 2011	Jamia Millia Islamia, New Delhi
22.	Soft Computing Techniques	Dec. 21, 2011	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
23.	Soft Computing in Mobile Communication	Mar. 13, 2010	Indira Gandhi Institute of Technology (IGIT), GGS Indraprastha University, Delhi
24.	Soft Computing	Sep. 16, 2010	Jawaharlal Nehru University (JNU), New Delhi-67
25.	Computational Intelligence	Nov. 20, 2010	G. L. Bajaj Institute of Technology and Management, Greater Noida, UP
26.	Neural Networks in Robotics	Nov. 27, 2010	Noida Institute of Engineering & Technology (NIET), Greater Noida, UP
27.	Fuzzy Logic and its Applications in Animal Management	Dec. 11, 2010	National Dairy Research Institute (NDRI), Karnal, Haryana
28.	Soft Computing in Nano Technology	Oct. 30, 2009	G. L. Bajaj Institute of Technology and Management, Greater Noida, UP
29.	Soft Computing	Nov. 19, 2008	Jawaharlal Nehru University (JNU), New Delhi-67
30.	Fuzzy Logic Fundamentals	Nov. 24, 2008	Jawaharlal Nehru University (JNU), New Delhi-67
31.	Fuzzy Logic	Dec. 24, 2008	Dr. B. R. Ambedkar National Institute of Technology (NIT) Jalandhar

11. PARTICIPATION IN WORKSHOP/CONFERENCES/ SEMINARS ETC. (MENTIONING THE ROLE)

Date (s)	Title of Activity	Level of Event (International/ National)	Paper presenter/ Speaker/ Chairperson	Event Organized by	Venue
February 16-18, 2020	Conference	International	Session Chair	Jamia Teachers Association (JTACON-2020)	Jamia Millia Islamia, New Delhi
June 14-16, 2019	Conference	International	Speaker	International Conference on Networks and Cryptology (NETCRYPT-2019	JNU, New Delhi
July 06, 2019	Conference	International	Presenter	International Conference on Basic/Applied Sciences, Textile, Mining, Environmental Engineering and Renewable Energy, Climate Change for Sustainable Development (SYNERGY-2019	JNU, New Delhi
February 25-27, 2016	Conference	International	Session Chair	International Conference on Signals, Networks, Computing, and Systems (ICSNCS)	JNU, New Delhi
November 18-19, 2016	Conference	International	Session Chair	International Conference on Innovative Applications of Computational Intelligence on Power, Energy, and Control with their Impact on Humanity (CIPECH-16)	KIET, Ghaziabad, UP
February 02-03, 2015	Conference	National	Session Chair	National Conference on Emerging Trends in Electrical and Electronics Engineering	JMI, New Delhi
February 02-03, 2015	Conference	International	Presenter	1st International Conference on Futuristic Trends in Computational Analysis and Knowledge Management	Amity University Noida, UP
March 14-15, 2015	Conference	International	Presenter	International Conference on Advances in Electrical Power Control, Electronics Engineering, and Applied Communication Technology	JNU, New Delhi

March 15, 2015	Conference	International	Presenter	International Conference on Recent Trends in Engineering, Science, and Management	JNU, New Delhi
December 17-20, 2015	Conference	International	Presenter	12th IEEE INDICON 2015	JMI, New Delhi
April 06-07, 2013	Conference	National	Presenter	2nd National Conference on Advancements in the Era of Multi-Disciplinary Systems (AEMDS-2013)	Kurukshetra, Haryana
March 12, 2012	Seminar	National	Presenter	National Seminar on Safety in Industries (NSSI-12)	YMCA University, Faridabad
July 04-06, 2012	Conference	International	Presenter	The 2012 International Conference of Computational Intelligence and Intelligent Systems	London
December 22-24, 2012	Conference	International	Session Chair	The Fourth International Conference on Networks and Communications	Hotel Benzz Park, Chennai
December 22-24, 2012	Conference	International	Presenter	The Fourth International Conference on Networks and Communications	Hotel Benzz Park, Chennai
January 21-23, 2011	Conference	International	Presenter	1st International Conference on Science and Engineering	Rohtak, Haryana
December 14-15, 2009	Conference	International	Presenter	International Conference on Methods and Models in Computer Science	JNU, New Delhi
December 15-17, 2006	Conference	International	Presenter	International Conference on Industrial Technology	Mumbai
January 4-7, 2005	Conference	International	Presenter	International Conference on Intelligent Sensing and Information Processing	Chennai
January 4-7, 2004	Conference	International	Presenter	International Conference on Intelligent Sensing and Information Processing	Chennai
January 23-24, 2004	Conference	International	Presenter	International Conference on Energy and Environment	Delhi
November 22-25, 2004	Conference	International	Presenter	International Conference on Neural Information Processing	Kolkata
May 25-28, 2003	Conference	International	Presenter	IEEE International Conference on Fuzzy Systems	St. Louis, USA
Dec. 9-12, 1998	Conference	International	Presenter	International Conference on Networking India and the World	Ahmedabad

October 11-17, 1998	Conference	International	Presenter	49th FID Conference and Congress	Delhi
September 24-25, 1998	Seminar	National	Presenter	Artificial Neural Networks & Cognitive Systems	Cochin
December 13-15, 1989	Conference	National	Presenter	13th National System Conference	Kharagpur

12. Ph. D. GUIDED/CO-GUIDED

S. No.	Name of the Ph.D. Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award	Name of University
1.	Z. A. Jaffery	On Some Aspects of Channel Estimation and Equalization	Co-supervisor	2004	Jamia Millia Islamia
2.	Amit Mishra	Development of Inference System in Soft Computing Framework	Supervisor	2010	Jamia Millia Islamia
3.	Fouzul Azim	A Soft Computing Approach to Voltage Collapse Forecasting and Mitigation of Power System	Supervisor	2012	Jamia Millia Islamia
4.	Ahteshamul Haque	Design and Development of a Novel MPPT (Maximum Power Point Tracker) for Solar Photovoltaic (PV) Energy Conversion System	Supervisor	2015	Jamia Millia Islamia
5.	Bajrang Prasad Mishra	Intelligent Volume Control for Mobile Phones in the Presence of Background Noise	Supervisor	2015	Jamia Millia Islamia
6.	Laxman Singh	Automated Detection and Classification of Tumor from Medical Imaging	Co-supervisor	2015	Jamia Millia Islamia
7.	Munish Manas	Designing and Optimization of a Smart Micro-Grid Towards sustainability	Supervisor	2016	Jamia Millia Islamia
8.	Sunita Prasad	Multi-objective Optimization of QoS Based Multicast Routing in Wireless Adhoc Networks	Supervisor	2016	Jamia Millia Islamia
9.	Sunanda	Optimal Design and Development of Robust Image Registration Algorithm	Co-supervisor	2017	Manav Rachna International University
10.	Aruna Pathak	Maximizing the lifetime of wireless sensor network using soft computing approach	Supervisor	2018	Jamia Millia Islamia

11.	Mayank Pande	Disaster Management in Electrical Power Distribution Sector	Supervisor	2018	Jamia Millia Islamia
12.	Raj Kumar	An Eco-friendly System Approach to Energy Planning in India	Supervisor	2019	Jamia Millia Islamia
13.	Kavita	Modelling for Fractional Order Control of Smart Microgrid	Supervisor	2020	Jamia Millia Islamia

13. EXTERNAL EXAMINER FOR Ph.D. THESIS EVALUATION

He performed the duties as External Examiner for Ph. D. Thesis evaluation in the following Universities/Institutes:

1. Jawaharlal Nehru University (JNU), New Delhi
2. Delhi University, New Delhi
3. Netaji Subhash Institute of Technology (NSIT), Delhi
4. Dr. B. R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab
5. Anna University, Chennai, Tamil Nadu
6. Banasthali Vidyapith (University for Women), Rajasthan
7. Manav Rachna International Institute of Research and Studies (Deemed to be University), Faridabad, Haryana
8. Punjab Engineering College (Deemed to be University), Chandigarh
9. Guru Govind Singh Indraprastha University, New Delhi

14. EXTERNAL EXAMINERS FOR M. TECH. DISSERTATION

He performed the duties as External Examiners for M. Tech. Dissertation in the following Universities/Institutes:

1. Jawaharlal Nehru University (JNU), New Delhi
2. IIT Delhi, New Delhi
3. National Institute of Technology (NIT), Hamirpur, Himachal Pradesh
4. Delhi Technological University (DTU), Delhi
5. Aligarh Muslim University (AMU), Aligarh, UP
6. Ambedkar Institute of Advanced Communication Technologies & Research, Geeta Colony, Delhi
7. Gautam Buddha University, Greater Noida, UP
8. Sharda University, Greater Noida, UP
9. Thapar Institute of Technology (Deemed to be University), Patiala, Punjab

15. COURSES TAUGHT AT UNDERGRADUATE LEVEL

1. Artificial Intelligence
2. Computer Networks
3. Computer Architecture
4. Computer Fundamentals
5. Analog Electronics
6. Digital Electronics
7. Signals and Systems
8. Electrical Engineering Fundamentals

16. COURSES TAUGHT AT POSTGRADUATE LEVEL

1.	Soft Computing
2.	Optimization Techniques

17. DISSERTATION GUIDED AT POSTGRADUATE LEVEL

30 M. Tech. Dissertation guided

18. RESEARCH PUBLICATIONS

A. Journals: Referred Journal

S. N.	Details
1.	K. Deepa, **Zaheeruddin**, Shruti Vashist, "Density Based Fuzzy C Means Clustering to prolong Network Lifetime in Smart Grids," **Wireless Personal Communications (Springer)**, Published online: 10 May, 2021, https://doi.org/10.1007/s11277-021-08371
2.	**Zaheeruddin** and Kavita Singh, "Load Frequency Regulation by deloaded Tidal turbine power plant units using fractional fuzzy based PID droop controller," **Applied Soft Computing Journal (Elsevier),** Volume 92, pp. 1-19, Article 106338, Published online: 28th April, 2020.
3.	**Zaheeruddin** and Kavita Singh, "Primary frequency regulation of a microgrid by deloaded tidal turbines," **Soft Computing (Springer)**, Volume 24, pp. 14667-14685, Published online: 10th March 2020, Citation 3.
4.	**Zaheeruddin** and Kavita Singh, "Intelligent Fractional-Order-Based Centralized Frequency Controller for Microgrid," **IETE Journal of Research (Taylor & Francis)**, Published online: 2nd March 2020, Citation 4
5	**Zaheeruddin** and Kavita Singh, "Intelligent frequency control in microgrid: Fractional order fuzzy PID controller," **Journal of Intelligent & Fuzzy Systems (IOS Press)**, vol 39, no 1, pp. 195–212, Published online: 3rd Feb, 2020. Citation 3
6.	**Zaheeruddin** & Payal Mahajan, "Optimized Handoff Algorithm for Heterogeneous Networks," **IETE Technical Review (Taylor & Francis)**, Published online: 23rd Sept. 2020, pp. 1-9. Available online: DOI: 10.1080/02564602.2020.1819894
7.	Deepa Kalaimani, **Zaheeruddin** & Shruti Vashist, "Energy-efficient density-based Fuzzy C-means clustering in WSN for smart grids," **Australian Journal of Multi-Disciplinary Engineering (Taylor & Francis)**, pp. 1-17, Published online: 08 Sep 2020. DOI: 10.1080/14488388.2020.1811454, Citation 1
8.	K. Deepa, **Zaheeruddin** and Shruti Vashist, "MDRP: An Energy-Efficient Multi-Disjoint Routing protocol in WSNs for Smart Grids," **International Journal on Smart Sensing and Intelligent Systems (Exeley)**, Vol. 13, Issue 1, Published online: 18th August, 2020, pp. 1-15, Available: DOI: 10.21307/ijssis-2020-016
9.	**Zaheeruddin** and Kavita Singh, "Design a novel fractional order controller for smart microgrid using multi-agent concept," **SN Applied Sciences (Springer Nature Journal)**, Vol. 1, Issue 11, Article number: 1487, pp. 1-14, Published online: 25th October 2019.
10.	**Zaheeruddin** and Kavita Singh, "Fractional Control Strategy for Smart Micro Grid," **Journal of Telecommunication and radio Engineering (Begell publisher)**, Vol 78, issue-12, pp.1063-1073, Published online: Aug-2019.
11.	**Zaheeruddin** and Kavita Singh, "Implementation of novel controller and communication channel for frequency control in Smart Microgrid," **Journal of Telecommunication and radio Engineering (Begell publisher)**, Vol 78, issue-13, pp. 1179-1191, Published online: Sep-2019.
12.	Payal Mahajan, **Zaheeruddin**, "Handoff Decisions in Hetnets using Fuzzy Logic and

	Machine Learning Techniques," **International Journal of Engineering and Advanced Technology (Blue Eyes Intelligence Engineering & Sciences Publication)**, Volume-9 Issue-1, pp. 474-478, Published online: 1st October 2019.
13.	**Zaheeruddin**, Raj Kumar, V.K. Jain, "Integration of Solar Energy Generation with Conventional Power Generation to Reduce the Emission of Carbon Dioxide and Other Harmful GHG," **International journal of computer Science and Engineering(IJSCSE)**, Open Access, issue 7, Vol. 6, Published online: 31st July 2018.E ISSN NO. 2347-2693.
14.	**Zaheeruddin**, D.K. Lobiyal, and Aruna Pathak, "Energy-aware bee colony approach to extend lifespan of wireless sensor network", **Australian Journal of Multi-Disciplinary Engineering (Taylor & Francis)**, vol. 13, issue 1, pp. 29-46, Published online: 10th August 2017, Citation 6
15.	**Zaheeruddin**, D.K. Lobiyal, and Sunita Prasad, "An elitist nondominated sorting genetic algorithm for QoS multicast routing in wireless networks", **Swarm and Evolutionary Computation (Elsevier)**, vol. 33, pp. 85-92, Published online: April 2017, Citation 12
16.	**Zaheeruddin**, D.K. Lobiyal, and Sunita Prasad, "Ant based Pareto optimal solution for QoS aware energy efficient multicast in wireless networks", **Applied Soft Computing (Elsevier)**, vol. 55, pp. 72-81, Published online: June 2017, Citation 14
17.	Amit Mishra and **Zaheeruddin**, "PAPR Reduction in OFDM Signals: An Adaptive-Network-Based Fuzzy Inference Approach", **Wireless Personal Communications (Springer)**, vol. 92, no. 2, pp. 587-601, Published online: 04 August, 2017, Citation 3
18.	Zainul Abdin Jaffery, Zaheeruddin, and Laxman Singh, "Computerised segmentation of suspicious lesions in the digital mammograms", **Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (Taylor & Francis)**, vol. 5, issue 2, pp. 77-86, Published online: 14th November 2014, Citation 3
19.	Sunanda Gupta, N Grover, and **Zaheeruddin**, "A novel approach for intensity based non-rigid image registration using Powell's algorithm" **International Journal of Biomedical Engineering and Technology**, vol. 24, no. 2, pp. 103-120, Published online: 17th June 2017
20.	Sunanda Gupta, S. K. Chakarvarti, and **Zaheerudin**, "Medical image registration based on fuzzy c-means clustering segmentation approach using SURF", **Int. J. Biomedical Engineering and Technology**, vol. 20, no. 1, pp. 33-50, Published online: 12th January 2016, Citation 10
21.	Sunanda Gupta, S. K. Chakarvarti, and **Zaheerudin**, "Medical Image Registration using Cauchy Schwarz Inequality via Template Matching", **American Journal of Algorithms and Computing**, vol. 3, no. 1, pp. 14-25, Published online: 28th April 2016
22.	Sunanda Gupta, Naresh Grover, **Zaheeruddin**, "A New Optimization Approach Using Smoothed Images Based on ACO for Medical Image Registration," **International Journal of Information Engineering and Electronics Business (IJIEEB), MECS Press**, Vol.8, No.2, pp. 30-36, Published online: Mar. 2016
23.	Ahteshamul Haque and **Zaheeruddin**, "A fast and reliable perturb and observe maximum power point tracker for solar PV system", **International Journal of System Assurance Engineering and Management (Springer)**, DOI 10.1007/s13198-016-0523-2, pp. 1-15, published online: 04 August 2016, Citation 12
24.	**Zaheeruddin** and Munish Manas, "Renewable energy management through microgrid central controller design: An approach to integrate solar, wind and biomass with battery", **Energy Reports (Elsevier)**, vol. 1, pp. 156-163, Published online: 17th July 2015, Citation 56
25.	**Zaheeruddin** and Munish Manas, "Analysis of Design of Technologies, Tariff Structures, and Regulatory Policies for Sustainable Growth of the Smart Grid", **Energy Technology & Policy (Taylor & Francis)**, vol. 2, pp. 28–38, Published online: 27th April 2015, Citation 9
26.	**Zaheeruddin**, Sukumar Mishra, Ahteshamul Haque, "Performance Evaluation of modified perturb & observe maximum power point tracker for Solar PV System", **Int J of System Assurance Engineering and Management (Springer Verlag)**, pp. 1-10, Published online: 05 June 2015, Citation 20
27.	**Zaheeruddin**, Sukumar Mishra, Ahteshamul Haque , "Operational Characteristics of DC-DC converters in maximum power point tracking operation for Solar PV system" **International Journal of Applied Engineering Research**, vol. 10, no. 6, pp. 15083-15090, Published online: March 2015

28.	Tarikul Islam, **Zaheer Uddin**, and Amit Ganguly, "Temperature Effect on Capacitive Humidity Sensors and its Compensation Using Artificial Neural Networks", **Sensors & Transducers**, vol. 191, issue 8, pp. 126-134, Published online: 24th August 2015, Citation 8
29.	**Zaheeruddin** and Munish Manas, "Stochastic modeling and optimization in a microgrid", **International Journal of Advance Research in Science and Engineering (IJARSE)**, vol. 3, no. 5, pp. 153-164, Published online: May 2014
30.	Tarikul Islam, Lokesh Kumar, **Zaheer Uddin**, and Amit Ganguly, "Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor", **IEEE Sensors Journal**, vol. 13, no. 6, pp. 1507-1513, Published online: 22nd January 2013, Citation 42
31.	**Zaheeruddin**, Raj Kumar, V.K. Jain, "A Review On Renewable Energy Generation Development Planning In India", **International Journal of Advance Research in Science & Engineering**, vol. 2, no. 9, pp. 45-53, Published online: September 2013
32.	Sunanda Gupta, S. K. Chakarvarti, **Zaheerudin**, "Image Registration Methods: A Short Review," American Journal of Algorithms and Computing, Vol. 1 No. 1, pp. 39-49, Published online: 14th Dec. 2013, Citation 4
33.	M Khan, **Zaheeruddin**, AK Singh, "Solar cell based DC-DC boost converter for implantable cardiac pacemaker: a computer simulation," **International Journal of Biomedical Engineering and Technology**, vol 12, no. 3, pp. 215-227, Published online: January 2013, Citation 12
34.	Amit Mishra and **Zaheeruddin**, "Design of Speed Controller for squirrel-cage Induction Motor using Fuzzy logic based Techniques", **International Journal of Computer Applications**, vol. 58, no. 22, pp. 10-18, Published online: 10-18 Nov 2012, Citation 8
35.	Amit Mishra, Khushboo Pachauri, and **Zaheeruddin**, "Design of 1-Dimentional FIR Filter using Modified Widrow-Hoff Neural Network", **International Journal of Computer Applications**, vol. 59, no. 20, pp. 23-28, Published online: Dec 2012, Citation 3
36.	Sunita Prasad, **Zaheeruddin** and D. K. Lobiyal, "A Novel Ant Colony Algorithm for Multicast Routing in Wireless Ad Hoc Networks", **Journal of Computer Science & Information Technology**, vol. 2, no. 2, pp. 309-317, 2012
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