

Curriculum-Vitae

1. Name: Dr. Arunesh Kumar Singh
2. Present Position: Assistant Professor
3. Office Address: Department of Electrical Engineering, F/o Engineering & Technology,
Jamia Millia Islamia, New Delhi, India
4. E-mail: asingh1@jmi.ac.in; aru_dei@yahoo.com; arunesh.singh@usask.ca
5. Employment Profile:

Job Title	Employer	From	To
Assistant Professor	Jamia Millia Islamia (A Central University), New Delhi, India	01/Jan/2018	Till Date
*Postdoctoral Fellow (PDF)	University of Saskatchewan, SK, Saskatoon, Canada	02/Nov/2016	31/Dec/2017
Assistant Professor	Jamia Millia Islamia (A Central University), New Delhi, India	03/Feb/2011	1/Nov/2016
Gr. Jr. Telecom Officer (Exec.)	B.S.N.L. (Govt. of India Enterprises), Delhi, India	13/Apr/2009	02/Feb/2011
H/W Engineer	B L Comp, New Delhi	06/Mar/2008	10/Apr/2009
Sr. Lecturer	Amity University, Noida, India	22/Jul/2005	5/Mar/2008
Lecturer	IEC-CET, U.P.T.U., Gr. Noida, India	15/Jul/2004	21/Jul/2005

*The PDF was awarded under discovery grant of NSERC, Canada at Intelligent Systems Research Lab, University of Saskatchewan, Canada for 17 months w.e.f. 01 Aug, 2016.

6. Academic Qualifications (in Chronological Order):

Examination	Board / University	Year	Division/ Awarded	Subjects
G.P.S.C. (Graduate in Professional Skills)	University of Saskatchewan, Saskatoon, Canada	2018	Awarded	Professional Skills
Ph.D.	Jamia Millia Islamia, New Delhi	2011	Awarded	Electrical Engineering
M. Tech.	D.E.I., Dayalbagh, Agra	2004	First	Engineering Systems
B.Sc. Engineering	D.E.I., Dayalbagh, Agra	2002	First	Electrical Engineering
Intermediate	U.P. Board, Allahabad	1996	First	Science Subjects
High School	U.P. Board, Allahabad	1994	First	Science Subjects

7. Details of Academic Work

(i) Courses taught at Postgraduate and Undergraduate levels

- Neuro Control Systems
- Adaptive & Robust Control
- Energy Management Systems
- Modelling & Simulation
- Control Systems
- Circuit Analysis
- Energy Conservation
- Switchgear & Protection
- Basic Electrical Engineering
- Electrical Machines
- Electromagnetic Field Theory
- Electrical measurement & measuring instruments
- Electrical Machine Design
- Power Electronics

(ii) Labs Handled

- Energy Management System Lab
- Advanced Control Lab
- SCADA Lab
- Control System Lab
- Switchgear & Protection Lab
- Basic Electrical Engg. Lab
- Electrical Machine Lab
- Power Electronics Lab
- Circuit Analysis Lab
- EMMI Lab
- CMPS Lab

(iii) Projects guided at Postgraduate/ Graduate level:

More than 40 projects guides at B.Tech/M.Tech. level.

8. Details of Major R&D Projects Completed/Patents:

- UGC Sponsored MRP Project (2012-2015): “Modelling & Simulation of Eddy Current Brakes for AABS” (Completed).
- Science and Engineering Research Board (SERB), Govt. of India Research project-2014:
“Hybrid Energy Absorbing System with Intelligent Control” (awarded).
- Project funded by Anusandhan National Research Foundation (ANRF)-2023-24: "AI based Smart Eddy Current Energy Absorbing System" (in-progress).
- One patent has been published on “Multi-disc ECBS” dated 01-10-2021.

9. Number of PhDs guided/In-Progress: 03 (awarded in 2020-21) and 03 (in progress)

10.(A) WORKSHOP / SHORT TERM / INDUCTION COURSE ATTENDED

1. One week online FDP on “Recent Advancements and Future Scope of Research in Electrical & Electronics Engg.” Organized by RKGIT, Ghaziabad from 6th to 10th September, 2021.
2. Completed successfully Five Day online FDP on “Inculcating Universal Human Values in Technical Education” organized by AICTE from 2 August 2021- 6 August 2021.
3. AICTE sponsored online STTP on "Role of Energy Management Systems in Smart Grid" organized by F/o Engineering & Tech., JMI from 7th to 12th June, 2021.
4. FDP on Python Programming language organized by JMI, New Delhi in association with IIT-Bombay from 31 Aug. 2020- 4 September 2020.
5. QIP Short Term Course on Artificial Intelligence and Fuzzy Systems: Theories, Concepts, and its Application, Centre for Continuing Education, Indian Institute of Technology Kanpur, 09/12/19 – 13/12/2019
6. Two Week Short Term Course on “Tools & Techniques for Modelling & Simulation (TTMS-2018)”, organized by Department of Instrumentation & Control Engineering, Netaji Subhas University of Technology, New Delhi during 17th – 29th December, 2018.
7. A Six Days Refresher Program on “ Innovation and Creativity in Teaching Learning Process” organized by Department of Electrical & Electronics Engineering, GL Bajaj Institute of Technology and Management, Gr. Noida during 2nd -7th July, 2018
8. A One Week GIAN course on "Role of Smart Building Energy Management Systems in the Development of Smart City" organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi during 6th -10th March 2018.
9. *Instructional Skill Workshop (ISW-2017)*, organized by Gwenna Moss Center for Teaching & Learning, *University of Saskatchewan, Saskatoon, Canada* during 17th -20th July, 2017.
10. Two Day Workshop on “Build your Scientific & Technical Writing Skills”, organized by Mitacs at *Guwenna Moss Center for Teaching & Learning, University of Saskatchewan, Saskatoon, Canada* on 3rd & 6th November, 2017.
11. The Safety Orientation course has been completed successfully organized by Safety Resources, University of Saskatchewan, Canada for the purpose of helping prevent job related injury and illness and to provide general safety required under Saskatchewan Occupational Health and Safety Regulations, 2016.

12. National workshop on Labview and Its Applications organized by Faculty of Engineering, D.E.I., Dyalbagh, Agra from 28-29 August, 2015.
13. First 3-Week Special Winter Program organized by UGC- Academic Staff College, JMI, New Delhi from 11th December, 2012 to 1st January, 2013.
14. AICTE Sponsored Staff Development Program on “Recent Advances in Electrical Power & Energy Systems” organized by December 09-22, 2011, New Delhi from December 09-22, 2011.
15. A Short Term Course on “ Integrating Renewable Energy Sources into Emerging Electric Power Systems” organized by Indian Institute of Technology (IIT), Mandi, Himachal Pradesh from 16th May to 20th May, 2011.
16. National Workshop on “Labview, Matlab and their Applications” (An Initiative of the Ministry of Human Resource Development under NMEICT) organized by Dayalbagh Educational Institute, Agra, on March 25-26, 2011.
17. An Induction Course on “GSM NOKIA” organised by Advanced Level Telecom Training Centre (ALTTC), Ghaziabad from 15th November to 24th December, 2010.
18. An Induction Course on “BSNL JTO Phase-I (2007 SY)” conducted by Regional Telecom Training Centre (RTTC), Nagpur from 13th April to 19th June, 2009.
19. A two months course attended on “Web Programming using JAVA” at SSI Education, Agra, May, 2004.

(B) CONFERENCE/SEMINAR ATTENDED

1. International Conference on Power, Energy, Environment And Intelligent Control (PEEIC-2024) Organized by GL BAJAJ Institute of Technology & Management 24th-28th December.
2. International Conference on Emerging Technologies: Micro to Nano (ETMN-2024) Organized by Department of electrical Engineering Jamia Millia Islamia, New Delhi & Manipal University Jaipur 22nd- 23rd November, 2024.
3. International Conference on Innovations & Ideas towards Patents (ICIIP-2021), organized by Indira Gandhi Delhi Technical University for Women, New Delhi on 30th October, 2021 (Online).
4. International Conference on Advance Computing and Innovative Technologies in Engineering, organized by MNNIT- Allahabad, Prayagraj, U.P on 4-5 March, 2021 (Online)

5. International Conference on Innovations in Cyber Physical Systems (ICICPS-2020), HRITM, New Delhi on 23rd October 2020.
6. Seventh International Conference on Advances in Computing, Communications and Informatics (ICACCI-2018), organized by PES Institute of Technology, Bangalore on September 19-22, 2018.
7. IEEE International Conference on Power Energy, Environment and Intelligent Control (PEEIC-2018), organized by G L Bajaj Institute of Tech, & Management, Gr, Noida on April 13-14, 2018.
8. International Conference on Technology for Education, Training and Business, organized by Noida International University, G.B. Nagar on April 5-6, 2018.
9. First International Conference on Signals, Machines and Automation (SIGMA-2018), organized by NSIT, New Delhi on February 23-25, 2018.
10. *IEEE Electrical Power and Energy Conference (EPEC-2017)* on Advanced Technologies for Renewable Energy Systems and Smart Grids organized by University of Saskatchewan & *IEEE-Canada at Hotel Delta Bess borough, Saskatoon, SK, Canada* on October 22-25, 2017.
11. IEEE Sponsored International Conference on Recent Development in Control, Automation and Power Engineering (RDCAPE-2015), organized by Amity University, Noida, India on March 12-13, 2015.
12. Third 3-Week Summer Special Programme organized by UGC- Academic Staff College, JMI, New Delhi from 16th May, 2014 to 5th June, 2014.
13. IEEE Sponsored National Conference on Energy, Power and Intelligent Control Systems organized by Galgotia Engg. College, Gr. Noida, 2014
14. First 3-Week Special Winter Programme organized by UGC- Academic Staff College, JMI, New Delhi from 11th December, 2012 to 1st January, 2013.
15. International Conference on Extropianism: Towards Convergence of Human Values and Technology organized by School of Engineering & Technology(ICECHVT2013), Ansal University, Gurgaon, on January 18-19, 2013.
16. International Conference on Agile Manufacturing Systems (ICAM-2011), held at D.E.I., Agra, on December 18-20, 2011.
17. National Conference on “Recent Advances in Electrical and Electronics Engineering” (RAEEE-2009), held at NIT, Hamirpur, on December 23-24, 2009.
18. National Conference on Advancement of Technologies- Global Scenario (ADTECHGLOS), organised by GLA College of Engg., Mathura, on February 25-26, 2007.
19. “An Indo-Canadian-American Quantum and Nano Computing Conclave” organized by Dayalbagh Educational Institute, Agra on December, 22, 2007.

20. National Seminar CEREBRUM-2001 on “Modern applications of computer in engineering and information technology” organized by “Anand engineering college”, Agra on February, 22-23, 2001.

11. Workshops/Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convener / Member)

Title of Activity	Level Event of	Date (s)	Role	Venue
Three Days FDP on “Advancement of control and Measurement Technologies in Electric Vehicles and Smart grids”	National	11 March To 13 March 2024	Convener	F/o Engg. & Tech Jamia Millia Islamia, New Delhi
2 nd International conference on Disruptive Technologies (ICDT-2024) IEEE.	International	15 th – 16 th March 2024	Speaker	GL BAJAJ Institute of Technology & Management. Noida U.P
International conference on Artificial intelligence And Smart Communication (AISC-2023)	International	27 th – 29 th January 2023	Speaker	GL BAJAJ Institute of Technology & Management. Noida U.P
One week FDP on “Recent Advancements and Future Scope of Research in Electrical & Electronics Engg.”	National	06-10 September, 2021	Convener	RKGIT, Ghaziabad, U.P.
AICTE sponsored STTP on "Role of Energy Management Systems in Smart Grid"	National	7-12 June 2021	Sessions Coordinator	F/o Engg. & Tech., JMI, New Delhi
IEEE-PELS Technical Talk on Neuro-control & Neuro-vision: An innovative approach	National	March, 26, 2018	Coordinator	F/o Engg. & Tech., JMI, New Delhi
IEEE India Conference (INDICON-2015)	International	December, 17-20, 2015	Member	Department of Electrical Engineering, JMI, New Delhi
National Conference on Emerging Trends in Electrical and Electronics Engineering	National	February 02-03, 2015	Member	Department of Electrical Engineering, JMI, New Delhi

Workshop on Curriculum Revision for B. Tech. & M. Tech. Courses	National	December 3-4, 2012	Member	Department of Electrical Engineering, JMI, New Delhi
AICTE Sponsored Staff Development Programme	National	December 09-22, 2011	Member	Department of Electrical Engineering, JMI, New Delhi
A Seminar on "NAARI SHASHKTIKARAN: VASTAVIKTA YA BHRAM"	District	March 7, 2009	Convener	Youth Hostel, Agra

12. AWARDS/RECOGNITION /Serving in National/International Committee:

1. Executive Member, ACDOS (An NMO of IFAC), India 2024-26.
2. Mentor, Student Mentorship Program (SMP) 2024 organized by IEEE India Council Industry Academia Young Professionals Committee (IAYPC) held from 20th August 2024 to 20th December 2024.
3. Member of Teacher Placement Coordinator of Department of Electrical Engineering, Jamia Millia Islamia, New Delhi for the year 2023-2024.
4. Life Member of Solar Energy System Society, India, 2023.
5. Mentor, Professional Mentoring Program for Young Faculty Member, IEEE, India Council, Oct-Dec, 2023.
6. Reviewer of no. of International Journals & IEEE Transactions.
7. Member of Institution of Engineers (India), 2021.
8. Awarded the Title of Chartered Engineer(India)-2021
9. Elevation of IEEE Senior member-2019-20. IEEE Senior Membership is an honor bestowed only to those who have made significant contributions to the profession.
10. Recipient of Bharat Vikas Award-2018 for outstanding performance in the field of Electrical Machines and Neuro Control on December 1st,2018 by Institute of Self Reliance (ISR), Bhubaneshwar, India.
11. Member of Technical Committee, IEEE International Conference on Power Energy, Environment and Intelligent Control (PEEIC-2018), organized by G L Bajaj Institute of Tech, & Management, Gr, Noida on April 13-14, 2018.
12. Member of Technical Programme Committee, First International Conference on Signals, Machines and Automation (SIGMA-2018), organized by NSIT, New Delhi on February 23-25, 2018.

13. Observer in DRDO Entry Test-2015 to conduct recruitment examination on 17th July 2016 through CEPTAM, Defence Research & Development Organisation (DRDO), Ministry of Defence, Govt. Of India.
14. Best paper award in IEEE Sponsored International Conference on Recent Development in Control, Automation and Power Engineering (RDCAPE-2015), organized by Amity University, Noida, India on March 12-13, 2015.
15. Marquis Who's Who has selected my biographical profile for inclusion in the new Who's Who in the World[®] 2015-16.
16. Member of the Technical Program Committee of International Conference on ENERGY, ECONOMICS & ENVIRONMENT (ICEEE2015) organized by Department of Electrical and Electronics Engineering, Galgotias College of Engineering and Technology, Greater Noida on March 27-28, 2015.
17. Member of Technical Programme Committee Organized by The Department of Electrical and Electronics Engineering (EEE), Amity School of Engineering & Technology (ASET), Amity University Uttar Pradesh, Noida (UP) India a two days International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE 2015) <http://rdcape.com/on12-13 March 2015>.
18. Member of the Technical Program Committee of National Conference on Emerging Trends in Electrical and Electronics Engineering organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi on Feb 02-03, 2015.

13. Invited Talks/expert lectures delivered:

Topic	Date	Inviting Organization
Equilibrium Point Analysis using Dynamic Pole Motion-	10 June 2021	JMI , New Delhi
Robust & Nonlinear System Dynamics and Control-	15 December, 2020	VSSUT- Burla, Orissa
Mod. & Sim. of ECBS using soft computing techniques-	26 February 2020	Poornima College of Engineering, Jaipur, Rajasthan
Neuro-Controller: An innovative Approach-	10 January 2020	V.B.S. Purvanchal University, Jaunpur, UP
Intelligent Controllers: An Innovative Approach	16 April, 2019	Allenhouse Institute of Technology, Kanpur
Future Technologies of Renewable Energy & Smart Micro-grids	15-16 March, 2019	School of Engg., Gautam Buddha University, Greater Noida
GATE Orientation Program	13 September 2018	SGI, Sri Ganganagar, Rajasthan
Technology Applications in Education	April 5-6, 2018	ICTETB, Noida International University, G B Nagar
Intelligent Control systems	April 13-14, 2018	ICPEEIC. G L Bajaj ITM, Gr. Noida
Modelling of Electrical Braking Systems	March 5, 2016	Delhi Technical Campus (DTC), Gr. Noida

National Conference on Innovations in “Signal, Communication and Energy Efficiency”	25th March, 2015.	Electrical and Electronics and Communication Eng department, IILM, Gr. Noida, India
Recent Trends in Footwear Technology	27th September, 2014	Department of footwear Technology, Faculty of Engg., D.E.I., Dayalbagh, India
Modelling & Simulation of E B S using soft computing technique	5th April 2014	School of Engineering, IFTM University, Moradabad, India
Fuzzy Systems and Applications in Engineering	29th March, 2014	G.L. Bajaj College of Engg. & Technology (UPTU), Gr. Noida, India
Soft Computing Applications	8th March, 2014	Sachdeva Institute of Technology (UPTU), Farah, Mathura, India
MatLab and Its Applications	28th Feb & 1st March, 2014	Faculty of Engg. & Technology, Agra College, Agra, India
Virtual Power Lab	Feb. 18, 2012	K.P. Engineering College, Etmadpur, Agra, India
Eddy Current Braking System	Jan 21-Feb 15, 2008.	A.D.R.D.E., (DRDO Lab) and D.E.I., Agra

14. Membership of Learned Societies:

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization (Year)
Life Member	System Society of India
Life Member	Solar Energy Society of India (2023)
Sr. Member	IEEE, USA-(2019-20)
Member	Institution of Engineers (India) –(2021)
Chartered Engineer (I)	Institution of Engineers (India) – (2021)

15. Publications

(A) Refereed Research Journals:

- A. K. Singh, S. Khatoon. K. Tripathi, "Development and validation of an efficient noise pollution energy conversion system", Journal of Dynamics and Control (ISSN No: 1672-6553), Volume 9 Issue 1. 2025. pp-35-47, DOI: 10.71058/jodac.v9i1005.
- A. K. Singh, S. Khatoon, K. Tripathi, K. Amin, "Transportation noise pollution: Impact and Opportunities", Journal of Systems Engineering and Electronics (ISSN No: 1671-1793) Volume 34 Issue 10 2024, pp. 342-349, DOI: 10.5281/zenodo.
- A. K. Singh, Kundan Kumar, T. Varshney, “Battery charging and discharging model for smart BMS of Electric Vehicle”, Int. J. of Nonlinear Dynamics & Control, Inderscience, 2024

- A. K. Singh, Md. Aasim, “A Review Analysis Of Health Monitoring of Electric Vehicle”, Int. J. of Nonlinear Dynamics & Control, Inderscience, 2024 DOI: 10.1504/IJNDC.2024.10066096
- Arunesh Kumar Singh, Abhinav Saxena, Umakanta Choudhury, Fazal Salman, Gulshan Sharma, and Ramesh C. Bansal. "Hybrid poisson-lagrange approach based on genetic algorithm for improving performance of induction motor." *International Journal of Modelling and Simulation* (2024): 1-12.
- Arunesh Kumar Singh, Kundan Kumar, Umakanta Choudhury, Ashok Kumar Yadav, Aqueel Ahmad, and K. Surender. "Applications of Artificial Intelligence and Cell Balancing Techniques for Battery Management System (BMS) in Electric Vehicles: A Comprehensive Review." *Process Safety and Environmental Protection* (2024).
- Arunesh Kumar Singh, Tabish Tariq, Mohammad F. Ahmer, Gulshan Sharma, Pitshou N. Bokoro, and Thokozani Shongwe. "Intelligent control of irrigation systems using fuzzy logic controller." *Energies* 15, no. 19 (2022): 7199.
- Arunesh Kumar Singh, Shahida Khatoon, Kriti, Abhinav Saxena, “Impact Review Analysis & Scope of Noise Pollution for Energy Harvesting”, *Journal of Engg. Research (SCIE)*, pp. 112-121, August, 2021.
- Arunesh Kumar Singh, Abhinav Saxena, Nathuni Roy, Umakanta Choudhury, “Interturn fault stability enrichment and diagnostic analysis of power system network using wavelet transformation-based sample data control and fuzzy logic controller”, *Transactions of the Institute of Measurement and Control*, vol. 43, 12: pp. 27882798. , First Published April 27, 2021 (*I.F.:1.8*).
- Arunesh Kumar Singh, Abhinav Saxena, “A novel neuro-fuzzy control scheme for wind driven DFIG with ANN-controlled solar PV array”, *Environment, Development and Sustainability*, (Springer), 22, 6605–6626 (Oct, 2020 (*I.F.:2.19*)).
- Arunesh Kumar Singh, Ibraheem, Amit Sharma, Abhinav Saxena, “Modelling, Simulation, controlling of eddy current braking system using intelligent controller”, *Journal of Intelligent & Fuzzy System*” (*SCIE*), IOS Press, Vol. 36, pp.2185-2194, 2019 (*I.F.:1.416*).
- Arunesh Kumar Singh, D. K. Chaturvedi, Nitin K. Pal, “Novel Strategic Fractional Order PID Controller for Speed Control of Induction Motor using PSO”, *Journal of Engineering Technology (SCIE)*, American Society for Engineering Education, Vol. 8, Issue 1, pp.400-410, 2019 (*I.F.:1.26*).
- Arunesh Kumar Singh, Ibraheem, Amit Sharma, Abhinav Saxena, “Implicit control of eddy current braking system using fuzzy logic controller (FLC) and particle swarm optimisation (PSO)”, *Journal of Discrete Mathematical Sciences & Cryptography*, Taylor & Francis, Vol.22, No. 2, pp. 253–275, 2019 (*ESCI, Scopus*).
- Arunesh Kumar Singh, Abhinav Saxena, “Robust designing of Wind Power based Doubly fed Induction generator (DFIG) using ANN Controlled Solar PV Array feeding 9-IEEE Bus System”, *Journal of Engineering Technology (SCIE)*, October 2018 (special issue), Vol.7, PP. 485-503, 2018 (*I.F.:1.26*).
- Arunesh Kumar Singh, Abhinav Saxena, “Adaptive Fuzzy logic controller for the Minimum power extraction under Sensor less control of Doubly fed induction

- Motor(DFIM) feeding pump storage turbine”, Springer B. Series“ Applications of Artificial Intelligence Techniques in Engineering“, PP.431-441, 2019 (Scopus).
- Arunesh Kumar Singh, D.K. Chaturvedi, Ibraheem, S. Khatoon, M.M. Gupta,“Intelligent controllers for eddy currentenergy absorber of aircraft arrester barrier system”, Int. j. of Engineering Intelligent Systems, CRL Press, U.K., 25(1), pp. 31-39, 2017 (Scopus).
 - Arunesh Kumar Singh, Abhinav Saxena, “ Novel Power Coefficient for extracting the maximum power In wind power based Doubly fed Induction generator(DFIG) using vector control“, „Journal of material science & engineering, IOP press, 2019 (Scopus).
 - Arunesh Kumar Singh, Abhinav Saxena, “Speed control of dc motor using fuzzy logic”, Journal of material science & engineering, IOP press, 2019 (Scopus).
 - Arunesh Singh , Abhinav Saxena,“Hybrid approach for Digital Watermarking using Intelligent System and Discrete Wavelet Transform (DWT)” „Springer nature journal,2019
 - Arunesh Kumar Singh, Abhinav Saxena, A. Singh ”Comparison between Wound Rotor Induction Motor and Doubly Fed Induction Motor Under Different Fault Condition” Published in “International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, V5IS100154 Vol. 5 Issue 10, October-2016.
 - Arunesh Kumar Singh, Ibraheem, Amit Kumar Sharma, “Modelling of Eddy Current Controlled AABS”, International Journal of Current Engineering and Scientific Research, Vol.2, Issue 10, 2393-8374, 43-47, 2015.
 - Arunesh Kumar Singh, D.K. Chaturvedi, Nitin K. Pal, “Design of a Robust Controller for Inverted Pendulum” ,International Journal of Computer Application (IJCA),Vol.112, No. 16, 0975-8887,23-28, 2015.
 - Arunesh Kumar Singh, S. Khatoon, Ibraheem, Md. Muazzam, ”An Overview of Electricity Demand Forecasting Technique”, Journal of Network and Complex Systems, IISTE,Vol.3, No. 3,38-48, 2013.
 - Omveer Singh, P.Tiwari, Ibraheem, Arunesh Kr. Singh, “A Survey of Recent Automatic Generation Control Strategies in Power Systems”, International Journal of Emerging Trends in Electrical and Electronics, Vol. 7, Issue. 2, 4-18, 2013.
 - A. K. Singh, D.K. Chaturvedi, Ibraheem, S. Khatoon, “Modelling and Simulation of Synergism of Hydraulic and Eddy Current Absorber for Aircraft Arrester Barrier System”, International Journal on Modeling, Measurement and Control (AMSE, France)“, Vol.-83, 80-88, 2010 (Scopus).
 - Arunesh K. Singh, D.K. Chaturvedi, Ibraheem, S. Khatoon, R.K. Sharma“, “Modelling of Eddy Current Braking For Energy Absorbing System Of Aircraft Arrester Barrier System”, Journal of Aerospace Science and Technologies, A.S.I, Vol.-62, No. 3,196202, 2010.

(B) Book Published:

- **Proceedings Of The International Conference On Systems, Control And Automation,** (Eds. J. S. Lather, A. K. Singh, G. Sushnigdha), Springer, National Institute of Technology, Kurukshetra, India 2024.

- **Intelligent Control for Modern Transportation Systems**, (Eds. A. K.Singh, B. Kumar, A. K.Singh, and S. Khatoon), CRC Press (Imprint of Taylor and Francis), Oct 16, 2023.

(C) Conferences/Workshops/ Symposia Proceedings

- Arunesh Kumar Singh, and Tabish Tariq. "Analysis of Intelligent Control of Irrigation System." In *Recent Developments in Electrical and Electronics Engineering: Select Proceedings of ICRDEEE 2022*, pp. 291-301. Singapore: Springer Nature Singapore, 2023.
- Arunesh Kumar Singh, Rohit Kumar, Bhavnesh Kumar, and D. K. Chaturvedi. "Fundamentals of modern transportation systems." In *Intelligent Control for Modern Transportation Systems*, pp. 1-20. CRC Press, 2023.
- Arunesh Kumar Singh, Shahida Khatoon, and Pof Ibraheem. "Modeling and Experimental Setup for Noise Pollution Energy Converter." In *2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT)*, pp. 1-4. IEEE, 2022.
- Singh, Arunesh Kumar, Abhinav Saxena, Imran Ahmad, and Umakanta Choudhury. "A Comprehensive Review on Active and Reactive Power Control of Grid Connected Converters." *Innovations in Cyber Physical Systems: Select Proceedings of ICICPS 2020 (2021)*: 659-666.
- Arunesh Kumar Singh, S. Khatoon, Kriti, "Identification of parameters for noise pollution based electrical energy converter", International Conference on Innovations in Cyber Physical Systems (ICICPS-2020) on 23rd October 2020.
- Arunesh Kumar Singh, S. Khatoon, Kriti, Abhinav S., "Impact review analysis & scope of noise pollution for energy harvesting" in Ist International Conference on Energy, Materials Sciences & Mechanical Engineering (EMSME-2020), 30th Oct - 1 st Nov, 2020 organized by NIT Delhi.
- Arunesh Kumar Singh, Ibraheem Nasiruddin and Amit Kumar Sharma, "Development, Analysis and Control of an Eddy Current Braking System using Fuzzy based Controller", International Conference SIGMA 2018 organised by NSIT New Delhi, 2018.
- Arunesh Kumar Singh, Abhinav Saxena, ' Vector Control Analysis of Doubly fed Induction generator(DFIG) for different controlled parameters' ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018.
- Arunesh Kumar Singh, Abhinav Saxena, ' Wind Power Based Doubly Fed Induction Generator (DFIG) For The Speed Control Using Rotor Side And Grid Side Converter' ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018
- Abhinav Saxena, Palak Tusyan, A Singh, ' Study of various FACTS devices for steady and dynamic state stability of Power System' ISBN 978-93-80544-28-1, IEEE Conference INDIACOM 2018.

- Arunesh Kumar Singh, D. K. Chaturvedi, Nitin K. Pal, “Analysis of Fractional Order PID Controller”, DST Sponsored International conference on Advance in energy, Drive & Control (ICAED-2017), ITS Engg. College, Gr. Noida, 2017.
- Arunesh Kumar Singh, Abhinav Saxena, “Sensorless fault analysis of Doubly fed induction motor, IEEE Sponsored Conference, “NSC-2017, Dayalbagh (DEI), Dec., 2017.
- Arunesh Kumar Singh, Abhinav Saxena, “Analysis of 3-Phase Induction Motor In Different Speed Reference Frame Coordinates”, IEEE International Conference „ICPCSI 2017“, ISBN: 978-1-5386-0814-2 , 2017.
- Arunesh Kumar Singh, Abhinav Saxena, “Fault Injection Analysis Of Wound Rotor Induction Motor And Doubly Fed Induction Motor (DFIM)” IEEE International Conference on INDIACOM , ISSN 0973-5658 ; ISBN 978-93-80544-24-3, 2017.
- Arunesh Kumar Singh, Abhinav Saxena, “Analysis of Speed Control of Doubly Fed Induction Machine (DFIM) Using Different Techniques” IEEE International Conference on INDIACOM, ISSN 0973-5658 ; ISBN 978-93-80544-24-3, 2017.
- Arunesh Kumar Singh, Ibraheem Nasiruddin, Amit Kumar Sharma, “Modelling and Simulation of a Novel Eddy Current Braking System”, IEEE sponsored National Conference NSC2017 organised by DEI Agra, pp.144-149, 2017.
- Arunesh Kumar Singh ,Abhinav Saxena, “Performance of Sensor and Sensorless Doubly fed Induction motor (DFIM) under the current sensor fault”, IEEE Explorer International Conference on ICPEICES 2016 “ ISBN 978-1-4673-8587-9/16/\$31.00 © IEEE 2016 (Scopus).
- Arunesh Kumar Singh, Abhinav Saxena, “Analysis of Intelligence Techniques on Sensor less Speed Control of Doubly fed Induction machine (DFIM)” “IEEE Explorer International Conference on INDIACOM-2016, ISSN 0973-7529; ISBN 978-93-8054420-5, 2016 (Scopus).
- Arunesh Kumar Singh ,Abhinav Saxena, on the topic “Comparative Analysis of Sensorless Speed Control of Three phase Induction Motor”, “IEEE Explorer International Conference on INDIACOM-2016, ISSN 0973-7529; ISBN 978-93-80544-20-5, 2016.
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