

**Department of Electronics and Electrical Engineering**  
**Journal Publications (till July,2021)**

S. No.	Faculty Name	Title	Journal	Year
1.	Ms. Annu Dagar	Microgrid protection: A comprehensive review	Renewable and Sustainable Energy Reviews	July, 2021
2.	Dr. Yogendra Arya	Heuristic optimization based dynamic weighted state feedback approach for 2DOF PI-controller in automatic voltage regulator	Engineering Science and Technology, an International Journal (Elsevier)	Feb. 2021
3.	Dr. Yogendra Arya	Frequency excursion strategy using a novel COA optimized FPI $\lambda$ DF controller in wind integrated power systems	IET Renewable Power Generation	Mar. 2021
4.	Dr. Yogendra Arya	Frequency stabilization in deregulated energy system using coordinated operation of fuzzy controller and redox flow battery	International Journal of Energy Research (Wiley)	Feb. 2021
5.	Dr. Yogendra Arya	Cascade- $\lambda$ D $\mu$ N controller design for AGC of thermal and hydro-thermal power systems integrated with renewable energy sources	IET Renewable Power Generation	Feb. 2021
6.	Dr. Yogendra Arya	AGC performance amelioration in multi-area interconnected thermal and thermal-hydro-gas power systems using a novel controller	Engineering Science and Technology, an International Journal (Elsevier)	Feb. 2021
7.	Ms. Shilpam Malik	A Novel SSA tuned PI-TDF control scheme for frequency excursions in Hybrid power system	Smart Science (Taylor & Francis)	2020
8.	Ms. Annu Dagar	Islanding Detection Methods for AC and DC Microgrid: A Review	International Journal of Latest Trends in Engineering and Technology	Dec, 2020
9.	Dr. Yogendra Arya	Optimal automatic generation control with hydro, thermal, gas and wind power plants in 2-area interconnected power system	Electric Power Components and Systems (Taylor & Francis)	Sept. 2020
10.	Dr. Yogendra Arya	Integrating layered recurrent ANN with robust control strategy for diverse operating conditions of AGC of the power system	IET Generation Transmission & Distribution	Sept. 2020

11.	Dr. Yogendra Arya	Effect of electric vehicles on load frequency control in interconnected thermal and hydrothermal power systems utilizing CF-FOIDF controller	IET Generation Transmission & Distribution	Jul. 2020
12.	Ms. Rakhi Kamra	Solving reliability redundancy allocation problem using grey optimization	Journal of Physics: Series ( <b>IOP Pub.</b> )	Dec. 2020
13.	Dr. Yogendra Arya	A novel CFFOPI-FOPID controller for AGC performance enhancement of single and multi-area electric power systems	ISA Transactions ( <b>Elsevier</b> )	May 2020
14.	Dr. Yogendra Arya	Automatic generation control for single area power system using GNA tuned PID controller	Journal of Physics: Conference Series ( <b>IOP Pub.</b> )	April 2020
15.	Dr. Yogendra Arya	Impact of ultra-capacitor on automatic generation control of electric energy systems using an optimal FFOID controller	International Journal of Energy Research ( <b>Wiley</b> )	Nov. 2019
16.	Dr. Yogendra Arya	Optimal power-frequency balance in deregulated thermal, hydro and hydrothermal power systems with AC-DC links	Recent Advances in Electrical & Electronic Engineering ( <b>Bentham Science Publishers</b> )	Oct. 2019
17.	Dr. Yogendra Arya	Effect of energy storage systems on automatic generation control of interconnected traditional and restructured energy systems	International Journal of Energy Research ( <b>Wiley</b> )	Oct. 2019
18.	Dr. Yogendra Arya	Impact of hydrogen aqua electrolyzer-fuel cell units on automatic generation control of power systems with a new optimal fuzzy TIDF-II controller	Renewable Energy ( <b>Elsevier</b> )	Aug. 2019
19.	Dr Yogendra Arya	A new optimized fuzzy FOPI-FOPD controller for automatic generation control of electric power systems	Journal of The Franklin Institute ( <b>Elsevier</b> )	Jul. 2019
20.	Dr Yogendra Arya	AGC of PV-thermal and hydrothermal power systems using CES and a new multi-stage FPIDF-(1+PI) controller	Renewable Energy ( <b>Elsevier</b> )	Apr. 2019

21.	Dr Yogendra Arya	AGC of restructured multi-area multi-source hydrothermal power systems incorporating energy storage units via optimal fractional-order fuzzy PID controller	Neural Computing and Applications <b>(Springer)</b>	Mar. 2019
22.	Dr Meena Tushirl	A new iterative fuzzy clustering approach for incomplete data,	Journal of Statistics and Management Systems((jsms), Taylor and Francis	2020
23.	Dr. Meena Tushir	A new Semi-Supervised Intuitionistic Fuzzy C-means Clustering	EAI Endorsed Transactions on Scalable Information Systems	2020
24.	Dr. Meena Tushir	Improving Semi-Supervised Classification using Clustering	EAI Endorsed Transactions on Scalable Information Systems	2020
25.	Dr. Meena Tushir	Different Approaches for Missing Data Handling in Fuzzy Clustering: A Review”	Recent Advances in Electrical & Electronic Engineering, BENTHAM SCIENCES	2019
26.	Dr. Meena Tushir	Robust Spatial Intuitionistic Fuzzy C-means with City- block Distance Clustering for Image Segmentation	Journal of Intelligent & Fuzzy Systems	2019
27.	Dr. Jyoti Jain	Multiobjective Economic Load Dispatch Studies in 2-D and 3- D Space by Particle Swarm Optimization Technique	J. Inst. Eng. India Ser. B (SPRINGER)	JAN.2019
28.	Dr. Sunil Gupta	Reliability Analysis of a Novel IEC 61850-9-2 Process Bus Based Substation Automation System Architecture	Journal of Statistics and Management Systems((JSMS), Taylor and Francis	March 2020
29.	Dr. Sunil Gupta	Performance Analysis of IEC 61850-9-2 Process Bus based Redundant Substation Automation System Architecture	Journal of Information & Optimization Sciences((JIOS), Taylor and Francis	March 2020
30.	Dr. Sunil Gupta	A Continuous Mitigation of kVAR-voltage problem of hybrid isolated power system using UPFC	Journal of Information & Optimization Sciences((JIOS), Taylor and Francis	March 2020
31.	Nidhi Gupta	JAYA Optimized Generation Control Strategy for Interconnected Diverse Source Power System with Varying Participation	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor and Francis	July 2019

32.	Sonia Goel	Different Approaches for Missing Data Handling in Fuzzy Clustering: A Review”	Recent Advances in Electrical & Electronic Engineering, BENTHAM SCIENCES	2019
33.	Sonia Goel	A new iterative fuzzy clustering approach for incomplete data,	Journal of Statistics and Management Systems((jsms), Taylor and Francis	Feb, 2020
34.	Dr. K.P. Chaudhary	A novel method of diameter measurement of pistons used in pressure standards using scanning principle and fusion technique.	Measurement Science and Technology	2018
35.	Dr Yogendra Arya	Improvement in automatic generation control of two- area electric power systems via a new fuzzy aided optimal PID- FOI controller	ISA Transactions ( <b>Elsevier</b> )	Sep. 2018
36.	Dr Yogendra Arya	Optimal power-frequency balance in deregulated thermal, hydro and hydrothermal power systems with AC-DC links	Recent Advances in Electrical & Electronic Engineering ( <b>Bentham Science Publishers</b> )	Aug. 2018
37.	Dr Yogendra Arya	AGC of two-area electric power systems using optimized fuzzy PID with filter plus double integral controller	Journal of The Franklin Institute ( <b>Elsevier</b> )	Jul. 2018
38.	Dr Yogendra Arya	AGC of two-area electric power systems using optimized fuzzy PID with filter plus double integral controller	Journal of The Franklin Institute ( <b>Elsevier</b> )	Mar. 2018
39.	Dr. Meena Tushir	A conditionally positive definite kernel function for possibilistic clustering	Int. J. Artificial Intelligence and Soft Computing (Inderscience)	2017
40.	Dr. Meena Tushir	A New kernel-based Possibilistic Intuitionistic Fuzzy c-means Clustering	Int. J. Artificial Intelligence and Soft Computing (Inderscience)	2017
41.	Dr Yogendra Arya	Optimal automatic generation control of two-area power systems with energy storage units under deregulated environment	Journal of Renewable and Sustainable Energy ( <b>American Institute of Physics</b> )	Nov. 2017
42.	Dr Yogendra Arya	Design and analysis of BFOA- optimized fuzzy PI/PID controller for AGC of multi-area traditional/restructured electrical power systems	Soft Computing ( <b>Springer</b> )	Nov. 2017

43.	Dr Yogendra Arya	Optimal control strategy- based AGC of electrical power systems: a comparative performance analysis	Optimal Control Applications and Methods ( <b>Wiley</b> )	Nov.- Dec. 2017
44.	Dr Yogendra Arya	Optimal control of restructured electric power systems interconnected via AC- DC links	International Journal of Research in Electronics and Computer Engineering	Oct.- Dec. 2017
45.	Dr Yogendra Arya	AGC performance enrichment of multi-source hydrothermal gas power systems using new optimized FOPID controller and redox flow batteries	Energy ( <b>Elsevier</b> )	May. 2017
46.	Ms. Rakhi Kamra	A Reliable Solution to Load Balancing with Trust Based Authentication Enhanced by Virtual Machines	I.J. of Information Technology and Computer Science	Nov 2017
47.	Dr. Yogendra Arya	BFOA-scaled fractional order fuzzy PID controller applied to AGC of multi- area multi- source electric power generating systems	Swarm and Evolutionary Computation ( <b>Elsevier</b> )	Feb. 2017
48.	Dr. Meena Tushir	Robust Spatial Intuitionistic Fuzzy C- means with City- block Distance Clustering for Image Segmentation	Journal of Intelligent & Fuzzy Systems	Nov 2018
49.	Ms. Rakhi Kamra	A Reliable Solution of path optimisation in LEACH protocol by implementing trust based neural network	International Journal of Communication Network and Distributed Systems(Inderscience)	Oct 2018
50.	Ms. Rakhi Kamra	Component Importance Measures based Risk and Reliability Analysis of Vehicular Ad Hoc Networks	International Journal of Computer Network and Information Security(IJCNIS)	Oct 2018
51.	Ms. Rakhi Kamra	Electrical Energy Conservation and Audit of an Educational Institute: A Case Study	International Journal of Research in Electronics and Computer Engineering	July 2018
52.	Ms. Nidhi Gupta	AGC of three area interconnected power system incorporating SMES	International Journal of Industrial Electronics and Electrical Engineering	January 2018
53.	Ms. Jyoti Jain	A Review of Particle Swarm Optimization	J. Inst. Eng. Ser. B (Springer)	March 2018
54.	Ms. Jyoti Jain	Economic Load Dispatch using Adaptive Social Acceleration Constant based PSO	J. Inst. Eng. India Ser. B (springer)	April 2018

55.	Ms. Jyoti Jain	Economic Load Dispatch Using Particle Swarm Optimization	International Journal of Technology and Science	July 2018
56.	Dr. Meena Tushir	Intuitionistic Level Set Segmentation for Medical Image Segmentation	Recent Patent on Computer Science	2019
57.	Ms. Jyoti Jain	Multiobjective Economic Load Dispatch Studies in 2-D and 3- D Space by Particle Swarm Optimization Technique	J. Inst. Eng. India Ser. B (springer)	2019
58.	Dr. Sunil Gupta	Software defined networks for smart substations in an active distribution system	Journal of Engineering Research	2019

**Department of Electronics and Electrical Engineering  
Conference Publications (till July 2021)**

S. No.	Faculty Name	Title	Conference Name	Year
1.	Dr Meena tushir	Performance Analysis of Different Kernel Functions for MRI Image Segmentation	Proceedings of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing	Jan 2021
2.	Dr Meena tushir	Hybrid KFCM-PSO Clustering Technique for Image Segmentation	Proceedings of International Conference on Artificial Intelligence and Applications. Advances in Intelligent Systems and Computing	Jan 2021
3.	Dr Meena tushir	Linear Interpolation-Based Fuzzy Clustering Approach for Missing Data Handling	Advances in Communication and Computational Technology, Select Proceedings of ICACCT 2019	Aug 2020
4.	Dr Meena tushir	An Enhanced Spatial Intuitionistic Fuzzy C-means Clustering for Image Segmentation	Procedia Computer Science, International Conference on Computational Intelligence and Data Science	Jan 2020
5.	Dr. Jyoti Jain	Economic Load Dispatch with Valve Point Loading Effect Using Optimization Techniques	International Conference on Artificial Intelligence and Applications 2020	2020
6.	Rakhi Kamra	Performance Improvement of VANET routing using Artificial Bee Colony Algorithm	6th International Conference on 'Recent Trends and Advancement in Engineering and Technology	2020

7.	Ms. Sonia Goel	Linear Interpolation-Based Fuzzy Clustering Approach for Missing Data Handling	International Conference on Advanced Communication & Computational Technology (ICACCT - 2019)	2019
8.	Dr. Meena Tushir	Semi supervised clustering for incomplete data	SIGMA-2018	2018
9.	Dr. Meena Tushir	Performance assessment for clustering techniques for image segmentation	Advance in intelligent systems & computing (Springer)	2018
10	Dr. Meena Tushir	Fuzzy c-means clustering strategies: A review of distance measures.	Advance in intelligent systems & computing (Springer)	2018
11.	Dr. Meena Tushir	A comparative study of fuzzy systems and neural networks for system modeling and identification	2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES18)	2018
12.	Dr. Meena Tushir	A New Log Kernel-Based Possibilistic Clustering	Advance in intelligent systems & computing, (Springer)	2018
13	Dr. Sunil Gupta	Modeling and Performance Analysis of Grid Connected Photovoltaic Power Systems	International Conference on Renewable Energy Potential For Sustainable Initiatives	2018
14.	Dr. Sunil Gupta	Improvement of Transient Stability Margin in RES Based Power Systems using STATCOM	International Conference on Renewable Energy Potential For Sustainable Initiatives	2018
15.	Ms. Sonia Goel	Semi supervised clustering for incomplete data	SIGMA-2018	2018
16.	Ms. Nidhi Gupta	PSO based automatic generation control of interconnected power system incorporating battery energy storage system	International Conference on Computational Intelligence and Data Science (ICCIDS 2018)	2018
17.	Ms. Nidhi Gupta			
18.	Ms. Mamta Rani	Solar electric bus	International Conference on Recent Innovation in Engineering, Science and Management (ICRIESM-2018)	2018
19.	Ms. Rakhi Kamra	Electrical Energy Conservation and Audit of an Educational Institute: A Case Study	International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2018)July 2018	2018

20.	Ms. Rakhi Kamra	Energy Audit and Energy Conservation for a Hostel of an Engineering Institute	2nd IEEE International conference on power Electronics, Intelligent Control and Energy systems (ICPEICES- 2018)	2018
21.	Ms. Jyoti Jain	Impact of Particle Swarm Optimization Parameters on its Convergence	2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-18)	2018
22.	Ms. Jyoti Jain	Multiobjective Economic Load Dispatch Using Fuzzy Logic Decision System	2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-18)	2018
23.	Ms. Sapna Singh	Arduino Based Robotic Arm with Six Degrees of Freedom	Journal of Emerging Technologies and Innovative Research	2019