

## Department of Electronics and Instrumentation Engineering

### List of Journal Publications

S.No	Title of paper	Name of the author/s	Department of the author/s	Name of journal	Year of publication	ISSN number
1.	Frequency Stability Analysis of Microgrid interconnected Thermal Power Generating System with GWO tuned PID controller	B. Anand	Electronics and Instrumentation Engineering	ICPS 2021 - 9th IEEE International Conference on Power Systems: Developments towards Inclusive Growth for Sustainable and Resilient Grid	2022	2691-0233
2.	Direct Synthesis Method-Based PID Controller for Critically Damped Time Delay Systems	R. Vinoth Kumar, D. Deivasigamani	Electronics and Instrumentation Engineering	Lecture Notes in Electrical Engineering	2022	1876-1100
3.	PSO Optimum Design-PID Controller for Frequency Management of Single Area Multi-Source Power Generating System	B. Anand	Electronics and Instrumentation Engineering	Contemporary Issues in Communication, Cloud and Big Data Analytics	2022	2367-3389

4.	Frequency Regulation of Interconnected Power Generating System Using Ant Colony Optimization Technique Tuned PID Controller	B.Anand	Electronics and Instrumentation Engineering	Control and Measurement Applications for Smart Grid	2022	1876-1119
5.	Develop IoT Technology to scale up existing treatment options to provide a healthcare solution	D.Vijayanandh	Electronics and Instrumentation Engineering	Bulletin of Environment, Pharmacology and Life Sciences	2022	2277-1808
6.	SCADA based real time monitoring and control for process control plants using industrial IoT	D.Deivasigamania, R.Vinoth Kumar, N.Kavitha and P.Shakthipriya	Electronics and Instrumentation Engineering	AIP Conference Proceedings	2021	0094-243X
7.	SmartPharma: Blockchain Enabled Internet of Things for Smart Pharmaceutical Traceability System	Vijayanandh D	Electronics and Instrumentation Engineering	IETE Journal of Research	2021	3772-063

8.	ACO-Based Control Strategy in Interconnected Thermal Power System for Regulation of Frequency with HAE and UPFC Unit	B. Anand	Electronics and Instrumentation Engineering	Lecture Notes in Networks and Systems	2021	2367-3370
9.	Online Product Warranty Claim using IoT	D. Deivasigamani, S.Rubasdanielraj, M.Kanakasabapathi, S.Karthickraja	Electronics and Instrumentation Engineering	Suraj Punj Journal For Multidisciplinary Research	2021	2394-2886
10.	ECSORRMAN: Optimal random route selection and elliptic curve cryptography based security schema for mobile ADHOC network	T. Manjula, B. Anand	Electronics and Instrumentation Engineering	Journal of Advanced Research in Dynamical and Control Systems	2020	1943-023X
11.	Design and Implementation of Intelligence System for Potholes Detection Using LABVIEW	D.Vijayanandh	Electronics and Instrumentation Engineering	International Journal of Psychosocial Rehabilitation	2020	1475-7192

12.	Low Power Optimization of Finite Impulse Response Filter Feature Extraction by Using Thyroid Cancer Region Identification in Medical Images	B. Anand	Electronics and Instrumentation Engineering	Journal of Medical Imaging and Health Informatics	2020	2156-7018
13.	A secured multiplicative Diffie Hellman key exchange routing approach for mobile adhoc network	T.Manjula, B.Anand	Electronics and Instrumentation Engineering	Journal of Ambient Intelligence and Humanized Computing, Springer	2019	3621–3631
14.	An On-Grid Solar Power Harvesting System with a DC-DC converter to minimize the variety Irradiance voltage for Multilevel Inverter	Viswanathan.M.P, Anand.B	Electronics and Instrumentation Engineering	Tierarztliche Praxis	2019	0141-9331
15.	Bat algorithm optimized controller for automatic generation control of interconnected thermal power system	Anand Baskaran	Electronics and Instrumentation Engineering	Frontiers in Artificial Intelligence and Applications	2019	1879-8314

16.	Design of a proportional-Integral-Derivative controller for an automatic generation control of multi-area power thermal systems using firefly algorithm	B. Anand	Electronics and Instrumentation Engineering	IEEE / CAA Journal of Automatica sinica	2019	2329-9266
17.	An experimental validation on adaptive controllers in tracking and smoothening of wind power for a variable-speed system	B. Anand	Electronics and Instrumentation Engineering	Journal of Testing and Evaluation	2019	1945-7553
18.	Ant Colony Optimization Based Load Frequency Control of Multi-area Interconnected Thermal Power System with Governor Dead-Band Nonlinearity	B. Anand	Electronics and Instrumentation Engineering	Lecture Notes in Networks and Systems	2018	2367-3370
19.	A Smart Monitoring System in Vehicles	N.Kavitha P.Shakthipriya	Electronics and Instrumentation Engineering	International Journal of Pure and Applied Mathematics	2018	1314-3395

20.	AGC of Multi-Area Hydro-Thermal Power Systems With GRC Non-Linearity and Classical Controller	B. Anand	Electronics and Instrumentation Engineering	Journal of Global Information Management	2018	1062-7375
21.	Automation of VFD based Sugarcane Crusher using PLC and SCADA	E.Gowthaman, A.Arun Prasad, V.Arunkanth, M.Kanagaraj, R.Mahesh Kumar, M.Sathish Kumar	Electronics and Instrumentation Engineering	International Journal of Pure and Applied Mathematics	2018	1314-3395
22.	Design of Optimum Controllers for Horizontal Tank Process	E.Gowthaman, V.Aruthra S.Vijaya Gowri V.Dinesh Kumar S.Mohanraj B.Anand	Electronics and Instrumentation Engineering	International Journal of Pure and Applied Mathematics	2018	1314-3395
23.	Effect of nonlinearity and boiler dynamics in automatic generation control of multi-area thermal power system with proportional-integral-derivative and ant colony optimization technique	B. Anand	Electronics and Instrumentation Engineering	Studies in Systems, Decision and Control	2018	2198-4182

24.	Optimal PID parameters based ant colony optimization algorithm of power system with non-linearity and boiler dynamics	B. ANAND	Electronics and Instrumentation Engineering	WSEAS Transactions on Systems and Control	2018	2224-2856
25.	Searle Viscosity Differential Flow meter	Riyaz B A, Thejas D, Karthikeyan J, Thirukuralkani K N, Venkatesh A, Rahul S Pillai	Electronics and Instrumentation Engineering	International Journal of Pure and Applied Mathematics	2018	1314-3395
26.	Tandem and cross compound turbine based load frequency control of multi area power system with SSSC and Redox unit	Dr.B.Anand	Electronics and Instrumentation Engineering	International Journal of TAGA	2018	1748-0345
27.	Tracking and Warning system for Fisherman using IoT	R.VinothKumar, M.SuriyaPrakash, P.Andril, M.Thamizhlni, N.VivekKumar	Electronics and Instrumentation Engineering	International Journal of Pure and Applied Mathematics	2018	1314-3395
28.	Load frequency control of hydro-hydro system with fuzzy logic controller considering non-linearity	B. Anand	Electronics and Instrumentation Engineering	Studies in Fuzziness and Soft Computing	2018	1434-9922

29.	Performance evaluation of objective functions in automatic generation control of thermal power system using ant colony optimization technique-designed proportional–integral–derivative controller	B. Anand	Electronics and Instrumentation Engineering	Electrical Engineering	2018	1432-0487
30.	Cascade PID-Lead Compensator Controller for Non-overshoot Time Responses of unstable system	Gowthaman E.	Electronics and Instrumentation Engineering	Energy Procedia	2017	1876-6102
31.	Flex Sensor based Indoor Automation using Hand Glove	D.Deivasigamani	Electronics and Instrumentation Engineering	International Journal of Scientific & Engineering Research	2017	2229-5518
32.	Improved modified area efficient carry select adder (MAE-CSLA) without multiplexer	B. Anand	Electronics and Instrumentation Engineering	Journal of Computational and Theoretical Nanoscience	2017	1546-1955
33.	Microcontroller Based Automatic control and smart protection of coal conveyor system	R.Vinoth Kumar	Electronics and Instrumentation Engineering	International journal of trend in research and development	2017	2394-9333



34.	Mitigation of uncertainties in wind-powered renewable systems for environmental assets	Anand Baskaran	Electronics and Instrumentation Engineering	Polish Journal of Environmental Studies	2017	1230-1485
35.	Particle swarm optimisation-based parameters optimisation of PID controller for load frequency control of multi-area reheat thermal power systems	B. Anand	Electronics and Instrumentation Engineering	International Journal of Advanced Intelligence Paradigms	2017	1755-0386
36.	Speed Control of Permanent Magnet Brushless DC Motor Using Hybrid Fuzzy Proportional plus Integral plus Derivative Controller	Gowthaman E., Vinodhini V., Hussain M.Y., Dhinakaran S.K., Sabarinathan T.	Electronics and Instrumentation Engineering	Energy Procedia	2017	1876-6102
37.	AGC of multi-area interconnected power systems by considering different cost functions and Ant Colony Optimization technique based PID controller	Anand B	Electrical and Electronics Engineering	Intelligent Decision Technologies	2017	1872-4981

38.	Application of flower pollination algorithm in load frequency control of multi-area interconnected power system with nonlinearity	B. Anand	Electrical and Electronics Engineering	Neural Computing and Applications	2017	1433-3058
39.	Quantum Inspired Evolutionary Algorithm in Load Frequency Control of Multi-area Interconnected Thermal Power System with Non-linearity	B. Anand	Electronics and Instrumentation Engineering	Studies in Big Data	2017	2197-6503