

Dr. M. WILLJUICE IRUTHAYARAJAN**Journal publications :****International Journal Publications with Impact Factor**

S.N O	Authors	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year
1.	L Kalaivani, P Subburaj, MW Iruthayarajan	Artificial Intelligence based Control for Torque Ripple Minimization in Switched Reluctance Motor Drives	Journal of Acta Scientiarum Technology	Vol. 36, No. 1, pp.33-40,	2014
2.	RV Maheswari, P Subburaj, B Vigneshwaran, MW Iruthayarajan	Partial Discharge Signal Denoising using Adaptive Translation Invariant Wavelet Transform-Online Measurement	Journal of Electrical Engineering and Technology (JEET) I.F = 0.725	Vol.9, No.2: pp. 695-706	2014
3.	S Manikandan, K Ramar, MW Iruthayarajan , KG Srinivasagan	Multilevel Thresholding for Segmentation of Medical Brain Images using Real Coded Genetic Algorithm	Internal Journal of Measurements	Vol. 47, pp. 558 - 568	2014
4.	RV Maheswari, P Subburaj, B Vigneshwaran, MW Iruthayarajan	Support Vector Machine Based Denoising Technique for Removal of White Noise in Partial Discharge Signal	Electric Power Components and Systems	Vol.42, No.14. pp. 1611-1622	2014
5.	N. Murugan, B Vigneshwaran, G.Kannayeram, RV Maheswari, MW Iruthayarajan	Analysis of Stress Control on 33kV Non-Ceramic Insulators using FEM	Electric Power Components and Systems	Vol. 43, No. 5, pp. 566-577	2015
6.	G. Saravanakumar, K. Valarmathi, M. Pallikonda rajasekaran, Seshadhri Srinivasan, M. Willjuice Iruthayarajan , Valentina E. Balas	Tuning of Multivariable Decentralized PID Controller using State Transition Algorithm	Studies in Informatics and Control	Vol. 24, No. 4, pp. 367 - 378	2015
7.	S Senthil Kumar, MW Iruthayarajan , M Bakruthen	Investigations on the suitability of rice bran oil and corn oil as alternative insulating liquids for transformers	IEEEJ Transactions on Electrical and Electronic Engineering	Vol.11, No. 1, pp. 10-14	2016

8.	S Senthil Kumar, MW Iruthayarajan , M Bakruthen, SG Kannan	Effect of Antioxidants on Critical Properties of Natural Esters for Liquid Insulations	IEEE Transactions on Dielectrics and Electrical Insulation	Vol. 23, No. 4, pp. 2068-2078	2016
9.	RT Arun Ram Prasath, M. Willjuice Iruthayarajan , R. Karthik	Retreatment of aged mineral oil using semiconductive nanocomposites for power transformer application	International Transactions on Electrical Energy Systems	Vol. 27, No.9 :e2358, https://doi.org/10.1002/etep.2358	2017
10.	T Piraisoodi, MW Iruthayarajan , KMA Kadhar	An Optimized Nonlinear Controller Design for Boiler-Turbine System Using Evolutionary Algorithms	IETE Journal of research	Vol.64, No.4, pp. 451-462 http://dx.doi.org/10.1080/03772063.2017.1360805	2018
11.	T Piraisoodi, MW Iruthayarajan , KMA Kadhar	Application of Single- and Multi-Objective Evolutionary Algorithms for Optimal Nonlinear Controller Design in Boiler-Turbine System	International Journal of Fuzzy Systems	Vol 20, No.3, pp 803–816	March 2018
12.	R Muniraj, M Willjuice Iruthayarajan , R Arun	Tuning of Robust PID Controller with Filter for SISO System Using Evolutionary Algorithms	Studies in Informatics and Control	vol. 26, No. 3, pp. 277-286	2017
13.	RT Arun Ram Prasath, M. Willjuice Iruthayarajan , R. Karthik	Performance Studies on Dielectric and Physical Properties of Eco-friendly based Natural Ester Oils using Semiconductive Nanocomposites for Power Transformer Application	IET Science, Measurement and Technology	Vol. 12, No. 3, pp. 323 – 327 DOI: 10.1049/iet-smt.2017.0467	2018
14.	Bakruthen M, Willjuice Iruthayarajan M , Narayani A	Influence of Ultrasonic Waves on Viscosity of Edible Natural Esters Based Liquid Insulation	IEEE Transactions on Dielectrics and Electrical Insulation	Vol. 25, No.5, pp. 1628-1635	2018
15.	Bakruthen M, Willjuice Iruthayarajan M , Narayani A	Statistical Failure Reliability Analysis on Edible and NonEdible Natural Esters Based Liquid Insulation for the Applications in High Voltage Transformers	IEEE Transactions on Dielectrics and Electrical Insulation	Vol. 25, No.5, pp. 1579-1586	2018

16.	Nafeena, R., Willjuice Iruthayarajan, M.	Redundant Placement of Phasor Measurement Unit using Multi Objective Evolutionary Algorithms Based on Modified Spectral Clustering	Cluster Computing	Vol. 22, pp. 12713–12725. https://doi.org/10.1007/s10586-018-1746-6	2019
17.	J. Sivadasan, M. Willjuice Iruthayarajan	Tuning of Nonlinear PID Controller for TRMS Using Evolutionary Computation Methods	Technical Gazette	VOL.25, No. Supplement1, pp.105-111 10.17559/TV-20170612090511	2018
18.	Madavan, R., Kumar, S.S., Willjuice Iruthayarajan, M.	A comparative investigation on effects of nanoparticles on characteristics of natural esters-based nanofluids	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Vol. 556, pp. 30-36	2018
19.	Vigneshwaran, B. , MW Iruthayarajan, RV Maheswari,	Recognition of Multiple Partial Discharge patterns by Multi-class SVM using Fractal Image processing technique	IET Science, Measurement and Technology	Vol. 12, No.8, pp. 1031-1038	2018
20.	T Piraisoodi, MW Iruthayarajan, KMA Kadhar	Multi-Objective Robust Fuzzy Fractional OrderPID Controller Designfor Nonlinear Hydraulic Turbine Governing System Using Evolutionary Computation Techniques	Expert Systems	Vol. 36, No.2, e12366	2019
21.	S. Ajithapriyadarsini P. Melba Mary M. Willjuice Iruthayarajan	Automatic generation control of a multi-area power system with renewable energy source under deregulated environment: adaptive fuzzy logic-based differential evolution (DE) algorithm	Soft Computing	Vol. 23, No.22. pp. 12087–12101	2019
22.	R. Muniraj, M. Willjuice Iruthayarajan, R. Arun, T.Sivakumar	Parameter Optimization of Multi Objective Robust Proportional Integral Derivative Controller with Filter using Multi Objective Evolutionary Algorithms	Revue Roumaine des Sciences Techniques	Vol. 64, 3, pp. 259–265	2019

23.	Vigneshwaran, B. , M Willjuice Iruthayarajan, RV Maheswari,	Partial discharge pattern analysis using multi class support vector machine to estimate cavity size and position in solid insulation	Soft Computing	Vol.24, pp. 10645–10656 https://doi.org/10.1007/s00500-019-04570-7	2020
24.	Rajamani.M.P. E, Willjuice Iruthayarajan. M and Sankara Kumar.S	Design of NSGA Based Controller for Boost Converter	Sylwan	Vol. 163, No. 12, pp. 386-408	2019
25.	Rajamani.M.P. E, Willjuice Iruthayarajan. M and Sankara Kumar.S	Design of NSGA Based Controller for Non-Inverting Buck-Boost Converter	Sylwan	Vol. 163, No. 12, pp. 409-432	2019
26.	Sankara Kumar.S, Willjuice Iruthayarajan. M and T.Sivakumar	Evolutionary Algorithm based Selective Harmonic Elimination for three phase Cascaded H-Bridge Multilevel Inverter with Optimized Input Sources	Journal of Power Electronics	Accepted for publication https://doi.org/10.1007/s43236-020-00112-9	2020

	Arun, R., Muniraj, R., Willjuice Iruthayarajan, M.	A New Controller Design Method for Single Loop Internal Model Control Systems	Studies in Informatics and Control	Vol. 29, No. 2, pp. 219 - 229	2020
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International Journal Publications (Non Impact Factor –Scopus/ Scholar indexed)

S.No		Title of the Paper	Name of the Journal	Vol. No & Page No.	Month & Year
1	M.Vavuniya, R.Santhiya, A.M.Kirthika, T.SalomiyaPaulin, M.Sivapalanirajan, M.Willjuice Iruthayarajan	Trajectory Tracking Of Wheeled Mobile Robot: Model-Based Test And Validation Using QBOT	International Journal of Scientific & Technology Research	Vol.9, No. 4, pp. 2999 - 3004	2020
2	D. Abarna, B. Vigneshwaran, M. Willjuice Iruthayarajan, R.V. Maheswari	Influence The Effect Of Cavity Size And Position In High Voltage Cable By Using Finite Element Method	International Journal of Scientific & Technology Research	Vol.9. No. 2, pp. 2706 - 2710	2020
3	K. Chermajeya, P. Eswari Prabha, V. Iswarya, B. Vigneswaran, M. Willjuice Iruthayarajan	Influence of Electric Field Distribution on 33kV Non-ceramic Insulator with Different Shed Configurations using 3D Finite Element Method	International Journal of Recent Technology and Engineering	Vol. 8, No. 4, pp. 11404-11409	2019
4	Sankarakumar S, M.Willjuice Iruthayarajan, T.Sivakumar	Performance Estimation Of Chaos Embedded Gravitational Search Algorithm For Power Converter Applications	Journal of Electrical Engineering	Vol. 19, No. 4, pp. 202- 211	2019
5	S, Arun Sankar, M. Willjuice Iruthayarajan	Design and performance analysis of a Maximum Power Point Tracking using Sliding Mode Controller for harvesting Photo Voltaic Power	Journal of Electrical Engineering	Vol. 19, No. 3, pp. 328-337	2019
6	Kannayeram, G., Manoharan, P.S.,	Tuning of unified power flow	Journal of Electrical	Vol.18, no. 2. Pp.488-	2018

	Willjuice Iruthayarajan, M. Sivakumar, T	controller (UPFC) using PSO and NSGA-II investigations	Engineering	495	
7	Kannayeram, G., Manoharan, P.S., Willjuice Iruthayarajan, M. Sivakumar, T	UPFC damping controller design using multi-objective evolutionary algorithms	International Journal of Business Intelligence and Data Mining	Vol. 13, No. 1-3, pp. 52–74.	2018
8	S Senthil Kumar, MW Iruthayarajan, M Bakruthen	Performance of activated bentonite and carbon in reclaiming the properties of used mineral oil	Journal of Electrical Engineering	Vol.17, No.3, pp.407-415	2017
9	MPE Rajamani, P Subburaj, MW Iruthayarajan, B Venkatasamy	Low Cost and High Efficiency Buck-Boost Converter for Photovoltaic Applications	Asian Journal of Research in Social Sciences and Humanities	Vol.7, No. 3, pp. 1087-1100	2017
10	Priyadarsini, S.A., Melba Mary, P., Iruthayarajan, M.W	Automatic Generation Control in Deregulated Power System Using Genetic Algorithm Optimized Fuzzy Controller	Applied Mathematics & Information Sciences	Vol. 11, No. 2, pp.478-487	2017
11	Saravanakumar, G., Valarmathi, K., Iruthayarajan, M.W. , Srinivasan, S.	Lagrangian-based state transition algorithm for tuning multivariable decentralised controller	International Journal of Advanced Intelligence Paradigms	Vol. 8, No. 3, pp. 303-317	2016
12	Nafeena, R., Willjuice Iruthayarajan, M.	Redundant Location of PMU for Complete Observability and Wide Area Monitoring of Power System using Real Coded Genetic Algorithm	Asian Journal of Research in Social Sciences and Humanities	Vol. 6, No. 11, 1131-1145	2016
13	Karthik, M. , Willjuice Iruthayarajan, M. Bakruthen, M.	Suitability analysis of natural esters based liquid insulating medium for high	International Journal of Applied Engineering Research	Vol. 10, No. 20, pp. 15331-15335	2015

		voltage transformers			
14	Nafeena, R., Willjuice Iruthayarajan, M. , Manikandan, K	Generator coherency based optimal placement of PMU using mixed integer linear programming	International Journal of Applied Engineering Research	Vol. 10, No. 55, pp.3060-3066	2015