

## **Dr.S.VIJAYACHITRA**

### **LIST OF PUBLICATIONS**

#### **INTERNATIONAL JOURNAL PUBLICATIONS:**

1. N.Nithya, **S.Vijayachitra**, "Fault Detection and Analysis using Statistical Data for Continuous Stirred Tank Reactor (CSTR)", International Journal of ChemTech Research, Vol.11 No.02, pp 266-274, 2018
2. N.Nithya, **S.Vijayachitra**, "Adaptive Neuro Fuzzy Inference System (ANFIS) Based Real Time Fault Detection and Analysis for Double Pipe Heat Exchanger", Journal of Recent Research in Engineering and Technology, Vol.5 No.4, pp 11-16, April 2018
3. S.Pooja, **S.Vijayachitra**, "Modeling and simulation of level control phenomena in a non-linear system", International Journal of Intellectual Advancements and Research in Engineering Computations, Vol. 5, No.1, Pp 465-469, March 2017
4. K.Nandhakumar, N.Thangam, K.N.BaluPrithviraj, **S.Vijayachitra**, "Design and Development of Wearable Medical Suit", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, No.3, Pp 3462-3469, March 2017
5. S.Janarthanan, **S.Vijayachitra**, "Non-Integer Order Controller Based Robust Performance Analysis of a Conical Tank System", Journal of Advanced Computing and Communication Technologies, Vol. 5, No. 2, pp. 32-26, April 2017
6. S.Pooja, **S.Vijayachitra**, "Real Time Performance Analysis, Fault Detection and Control in Conical Tank System", International Journal of Research in Electronics, Vol.4, No.2, pp-1-6, May-2017
7. K.N.BaluPrithviraj, **S.Vijayachitra**, "Optimization of VLSI Architecture for High Performance PLL", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol.5, No.9, November-2017
8. N.Mahesh, **S.Vijayachitra**, "Improving Energy Efficiency of Wireless Sensor Networks through Modified Localization Algorithms, International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE), Vpl.5, No.10, October 2017. pp. 15971 -15977.
9. S.Monisa, **S.Vijayachitra**, "Real time Performance Analysis and Fault Diagnosis in Heat Exchanger", International Journal of ChemTech Research, Vol-8, No.12, Feb-2016, pp-418-427.
10. S.Monisa, **S.Vijayachitra**, "Support Vector Machine Based Fault Diagnosis in Shell and Tube Heat Exchanger", Global Journal of Electronic and Communication Research, Vol-7, No.1, March-2016, pp-179-187.
11. S.Monisa, **S.Vijayachitra**, "Modelling and Real Time Fault Diagnosis in Shell and Tube Heat Exchanger", Journal of Advanced Computing and Communication Technologies, Vol-7, No.1, March-2016, pp-179-187.

12. S.Monisa, **S.Vijayachitra**, “Neuro-Fuzzy Technique Based Fault Diagnosis in Shell and Tube Heat Exchanger”, Journal of Instrumentation Technology & Innovations, Vol 6, No 2 (2016), pp-21-27.
13. S.Monisa, **S.Vijayachitra**, “Real Time Performance Analysis for Fault Diagnosis in Heat Exchanger Using ANFIS and SVM Methods”, Journal of Chemical and Pharmaceutical Sciences, Vol 8, No 1, December-2016, pp-18-22.
14. M.MadanMaohan, **S.Vijayachitra**, “Controller Design for Evaluating Optimal Chemical Ratio in Starch Modification Process”, Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No.10, October 2016, pp.900-910.
15. M.Pravin Kumar, **S.Vijayachitra**, "Soft Computing Techniques for ladle refining Process in Steel Making", International Journal of Advanced Engineering Technology, Vol.7, Issue.1, pp-955-958, March-2016
16. **S.Vijayachitra**, R.Gowthami, “Fault detection and diagnosis in Continuous Stirred Tank Reactor (CSTR)”, International Journal of Technical Research and Applications, Vol.3, No.2, Mar- 2015, pp. 07-11.
17. M.Karthik, **S.Vijayachitra**, “Dynamic Modeling and Analysis of Power Sharing Control Strategy Based Fuel Cell/Battery Assisted Hybrid Electric Vehicle System”, International Journal of Renewable Energy Research, Vol.5, No.1, April -2015, pp-139-150.
18. K.G.Parthiban, **S.Vijayachitra**, “Spike Detection from Electroencephalogram Signals with Aid of Hybrid Genetic Algorithm-Particle Swarm Optimization”, Journal of Medical Imaging and Health Informatics, Vol. 5, No.5, September -2015, pp. 936-944.
19. A.Sheela, **S.Vijayachitra**, “Dual Vector Control For Grid Interactive Converters In Smart grid Under Unbalanced Conditions “, International Journal of Engineering Research & Management Technology, Vol. 2, No.1, January- 2015 pp-.17-25.
20. A.Sheela, **S.Vijayachitra**, “H-infinity controller for frequency and voltage regulation in grid-connected and islanded microgrid”, IEEEJ Transactions on Electrical and Electronic Engineering, Vol.10.No.5, pp-503-511, Sep-2015.
21. A.Sheela, **S.Vijayachitra**, “Comparison of extrapolation techniques for active and reactive power prediction in grid connected inverter”, International Journal of Computer Informatics & Technological Engineering, Vol..2, No.1, Jan 2015, pp-1-6.
22. M.Pravinkumar, **S.Vijayachitra**, “Industrial Process Modeling using Intelligent Techniques”, Karpagam Journal of Engineering Research, Vol.3 pp-831-839.
23. K.G.Parthiban, **S.Vijayachitra**, “A new classification method of epileptic EEG signal using differential evolution optimally pruned extreme learning machine”, Middle-East Journal of Scientific Research, Vol.22, Issue -6, pp-816-821.
24. K.G.Parthiban, **S.Vijayachitra**, “Spike Detection from EEG signal using PSO”, Unique Journal of Engineering and Advanced Sciences, Vol.2, Issue -4, pp-51-55.
25. K.G.Parthiban, **S.Vijayachitra**, “A new framework based on Extreme Learning Machine for Epileptic Seizure Detection”, Unique Journal of Engineering and Advanced Sciences, Vol.2, Issue -4, pp-56-62.

26. K.G.Parthiban, **S.Vijayachitra**, "Removal of Harmonics in EEG using PSO", International Journal of Applied Engineering Research , Vol.10, No.38, 2015, pp-28977-28982
27. K.G.Parthiban, **S.Vijayachitra**, "Removal of Artifacts in EEG using ELM", International Journal of Applied Engineering Research , Vol.10, No.38, 2015, pp-28983-28988.
28. M.Kandasamy, **S.Vijayachitra**, "Heuristic Algorithm Based Controller Optimization for a Real Time pH Neutralization Process System", International Journal of ChemTech Research, Vol.7, No.5, 2015, pp 2320-2332.
29. M.Sivachitra, **S.Vijayachitra**, "A Meta-cognitive Fully Complex Valued Functional Link Network for solving real valued classification problems", Journal of Applied Soft Computing, Vol. 33,May-2015, pp-328–336.
30. M.Pravinkumar, **S.Vijayachitra**, "Steel Process Modeling using Clustering Technique", International Journal of Applied Engineering Research, Vol.10, No.62, October 2015, pp-34-36.
31. M.Pravinkumar, **S.Vijayachitra**, "Fuzzy Based Approach for Assessing Amount of Alloy Additives in Steel Production Process", International Journal of Electrical and Computing Engineering, Vol-1, Issue-4, June-2015 pp70-72.
32. M.Pravinkumar, **S.Vijayachitra**, "Neuro Fuzzy Technique for Steel Process Modeling", Indian Journal of Science and Technology, Vol-8, Issue-24, September-2015 pp-1-7.

#### Journals Published (National):

1. N.Nithya, **S.Vijayachitra**, "Real Time Fault Detection and Analysis Using Neural Networks for Double Pipe Heat Exchanger", Journal of the Instrument Society of India, Vol-47, No.3.pp-96-99,September-2017
2. S.Pooja, **S.Vijayachitra**, "Real time Level Control of Conical Tank System using Model Based Controllers", Journal of the Instrument Society of India, Vol. 46, No.4, pp178-182, December 2016
3. S.Monisa, **S.Vijayachitra**, "Graphical User Interface based Fault Diagnosis in Shell and Tube Heat Exchanger", Journal of the Instrument Society of India, Vol-45, No.4.pp-228-232, December-2015
4. I.Hemalatha, **S.Vijayachitra**, "Model Based Incipient Fault Detection and Estimation of Heating and Estimation of Heating Ventilation and Air-Conditioning System", National Journal of Technology, Vol.11, No.3, September 2015, pp-27-34.