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Publication:

- 1) Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System Design and Implementation of Internal Model Control and Particle Swarm Optimization Based PID for Heat Exchanger System, E Kesavan, N Gowthaman, S Tharani, S.Manharan, E.Aunkumar International Information and Engineering Technology Association, Volume:33, Issue:03.2016.
- 2) An improved switching topology for single phase multilevel inverter with capacitor voltage balancing technique M Subramaniam, GCR Irudayaraj, K Mylsamy Journal of Power Electronics, 2017.
- 3) Integrated PID based intelligent control for three-tank system J Arulvadivu, N Divya, S Manoharan ARPN Journal of Engineering and Applied Sciences, 2015.
- 4) Performance Analysis and Comparison of Different Tuning Strategies of PI Controller in Conical Tank E Kesavan, A Agalya, P Palpandian, S Manoharan Indian Journal of Science and Technology, 2016.
- 5) Smart Data Acquisition Technique For Level Process Using LIFA T Sivaranjani, P Malarvizhi, S Manoharan ARPN Journal of Engineering and Applied Sciences, 2015.
- 6) Performance Analysis of Multi Converter Unified Power Quality Conditioner with Dual Feeder System using Fuzzy Logic Control GB Mohankumar, S Manoharan International Journal of Control and Automation, 2015.
- 7) Influence of Fiber Reinforcement and Abrasive Particle Size on Three-Body Abrasive Wear of Hybrid Friction Composites S Manoharan, G Ramadoss, B Suresha, R Vijay Applied Mechanics and Materials, 2015.
- 8) Design of dual-bridge high frequency resonant DC–DC converter for storage application V Thirumurugan, K Senthilkumar, S Manoharan Int. J. Control Theory Appl, 2017.

- 9) Optimized interleaved boost converter with high step up voltage gain for photovoltaic applications V Thirumurugan, S MANOHARAN Optoelectronics and Advanced Materials Rapid Communications Volume 9 Issue 5-6, 2015.
- 10) Designing of Improved Series Resonant Inverter with FPGA Controller for Heating Applications S Dhayanandh, S Manoharan Journal of Circuits, Systems and Computers, 2020.
- 11) Modified SEPIC with Boost Converter based Power Factor Correction for Single-Phase Induction Motor Drive J Vijayakumar, M Subramanian Solid State Technology, 2020.
- 12) A Hybrid PS-BFO Approach for Profit based Unit Commitment Problem in Competitive Power Market R Sundar, S Manoharan Solid State Technology, 2020.
- 13) Packed U Cell 5 level Inverter based Shunt Active Power Filter for Mitigation of harmonics in Three Phase Systems K Ananthi, S Manoharan Solid State Technology, 2020.
- 14) Profit Maximization of GENCO's Using an Elephant Herding Optimization Algorithm S Ravichandran, M Subramanian STUDIES IN INFORMATICS AND CONTROL, 2020.
- 15) Emergency Depressurisation Sequence Control for Flare Handling in oil and Gas Industry S MANOHARAN Studies in Indian Place Names, 2020.
- 16) Smart Cradle System Using Arduino NN KAAVIYA Studies in Indian Place Names, 2020.
- 17) IOT Based Safety and Health Monitoring System For Construction Workers DRS MANOHARAN, KB POORNESH Studies in Indian Place Names, 2020.
- 17) Design and Simulation of PID Controller based Pressurized Head Box in Paper Machine Divya N, Manoharan S International Journal of Engineering and Advanced Technology (IJEAT) Volume 9, Issue 1S2.
- 18) New High Efficient Hybrid Pv/Emg/Battery Input Energy Harvesting System For Portable Devices Application S Rathinamala, S Manoharan Journal Of Environmental Protection and Ecology Volume 20, Issue 2.
- 19) Water Quality Analyzer Using IoT Manoharan.S, Sathiyaraj.G, Thiruvenkadakrishnan.K, Vetriselvan.G.V, Praveenkishor International Journal of Innovative Technology and Exploring Engineering Volume 8 Issue 8S.
- 20) Design and Development of Automated Dumpster Management System Manoharan S, Janani T, Jagadeesh P, Jeevan Raju M, Bhuvaneswari G International Journal of Innovative Technology and Exploring Engineering Volume: 8 Issue: 8S.
- 21) Power Quality Improvement using Fuzzy Logic Controller based Hybrid Active Power Filter Ananthi K, Manoharan S, International Journal of Innovative Technology and Exploring Engineering, Volume 8 and Issue 6S.

- 22) Analysis of Secondary Impedance Control for Wound Rotor Induction Motor Using Enhanced Emotional Learning Based Intelligent Controller MP Mohandass, S Manoharan Caribbean Journal of Science Volume 53, Issue 1.
- 23) A COMPARATIVE ANALYSIS OF MATRIX CONVERTER WITH FUZZY AND PI CONTRTOLLER V.THIRUMURUGAN, S.MANOHARAN, K.KANDAN Caribbean Journal of Science 2019.
- 24) Power Quality Improvements Using Multi Converter Unified Power Quality Conditioner DHAYANANDH, MANOHARAN Caribbean Journal of Science.
- 25) Efficiency Enhancement of Induction Motor Using Soft Computing Technique Arulvadivu J,Palpandian P, Manoharan S International Journal of Innovative Technology and Exploring Engineering Volume 8 Issue 5S.
- 26) ARTIFICIAL RAINDROPALGORITHM BASED CONTROL FOR FAULT TOLERANCE AND RECONFIGURATION OF DISTILLATION COLUMN GANESH RM, MANOHARAN S. Journal of Electrical Engineering 18 (4).
- 27) EEG BASED BRAIN CONTROLLED STROLLER Manoharan S, Aadarsh K, Manoj Kumar S, .Soundarya R, Udhaya Kumar R International Journal of Pure and Applied Mathematics 118 (20), 2018.
- 28) IMPROVED PERFORMANCE OF FIRST ORDER SYSTEM WITH DEAD TIME PROCESS USING MODIFIED INTERNAL MODEL CONTROLLER Indirapriyadharshini J, Sivaranjani T, Manoharan S International Journal of Pure and Applied Mathematics 118 (11), 2018.
- 29) Parametric Optimization and Control of Heat Exchanger using Linear Quadratic Controller and Dynamic Matrix Controller E Kesavan, N Divya, N Gowthaman, S Manoharan International Journal of Engineering & Technology, 2018.
- 30) IMPROVED DESIGN OF HARMONIC FILTERING TECHNIQUE FOR AC AND DC CONVERTERS S Dhayanandh, S Manoharan International Journal of Pure and Applied Mathematics, 2018.
- 31) Parametric Optimization and Control of Heat Exchanger using Linear Quadratic Controller and Dynamic Matrix Controller E Kesavan, N Divya, N Gowthaman, S Manoharan International Journal of Engineering & Technology, 2018.
- 32) IMPROVED DESIGN OF HARMONIC FILTERING TECHNIQUE FOR AC AND DC CONVERTERS S Dhayanandh, S Manoharan International Journal of Pure and Applied Mathematics, 2018.
- 33) Performance improvement of ceiling fan motor using variable frequency drive with SEPIC converter Jethose V, manoharan S International Journal of Pure and Applied Mathematics 118 (11),2018.

- 34) Servo and regulatory performance analysis in conical tank using different tuning strategies og PI controller Kesavan E, Arulvadivu J, Palpandian P, Manoharan S International Journal of Pure and Applied Mathematics 2018.
- 35) Adaptive fuzzy based UPFC controller for transient stability analysis in autonomous wind-diesel hybrid system Karthick R, Harish R, Manoharan S International Journal of Pure and Applied Mathematics 118 (11),2018.
- 36) Analyzing solar PV system with interleaved DC-DC boost converter using fuzzy logic control Thirumurugan V, Manoharan S International Journal of Pure and Applied Mathematics 118 (11), 2018.
- 37) Performance comparisons of eleven level and fifteen level inverter with minimum number of switches Sounder rajan P, Manoharan S, Praveenraj G International Journal of Pure and Applied Mathematics 118 (11), 2018.
- 38) Optimal decision making of angle and location of the solar panels using HIG-DEF Rajeshkanna R, Manoharan S Internationall journal of Pure and Applied Mathematics 118 (11), 2018.
- 39) Utilization of Auxiliary Winding Power to Improve the Performance of a Single Phase Induction Motor—A Unique Approach MS Jethose V Journal of Computational and Theoretical Nanoscience 14 (8), 2017.
- 40) Optimized Series Resonant Inverter for Induction Heating Application Using FPGA Based Implementation Dhayanandh S, Manoharan S Journal of Computational and Theoretical Nanoscience 14 (2),2017.
- 41) A Novel PV based STATCOM for Augmenting Real Power and Reactive Power for a Grid Connected Load Ananthi Kaliyamoorthy, S. Manoharan International Journal of Control Theory and Applications 10 (2), 2017.
- 42) Grid Integration of Renewable Energy Sources with Power Quality Improvement Features using Multilevel Inverters R. Karthick, S. Manoharan International Journal of Control Theory and Applications 10 (2), 2017.
- 43) Analysis on Power Quality Issues of VSI with an Improved Modulation Strategy P. Soundar Rajan, I. Gerald Christopher Raj, M. Arul Prasanna, S. Manoharan International Journal of Control Theory and Applications 2017.
- 44) FUZZY BASED OPTIMIZED ENERGY MANAGEMENT STRATEGY OF RENEWABLE ENERGY SOURCES FOR STAND ALONE APPLICATIONS R.Karthick, S.Manoharan Journal of Electrical Engineering 17 (1), 2017.
- 45) A New Control Strategy for Cascaded Multilevel Inverter with Reduced Number of Switches Soundar Rajan P, Manoharan S ADVANCES in NATURAL and APPLIED SCIENCES 11 (3), 2017.
- 46) Fault Tolerant Control with Reconfiguration Mechanism for a CSTR Ganesh R M, Manoharan S Asian Journal of Research in Social Sciences and Humanities
- 47) PERFORMANCE ANALYSIS OF INTELLIGENT CONTROL BASED MULTI CONVERTER UNIFIED POWER QUALITY CONDITIONER SYSTEM

- FOR ENHANCING POWER QUALITY Mohankumar.G.B, Manoharan.S International Journal of Advanced Engineering Technology 7 (1), 2016.
- 48) Reduction of Interaction in Multivariable System using LabVIEW Indira Priyadharshini J, Sivaranjani T, Manoharan S Indian Journal of Science and Technology 9 (11), 2016.
- 49) Performance Assessment Of Multi Converter Unified Power Quality Conditioner System For Enhancing Power Quality With Anti- Windup Pi Controller Mohankumar G B, Manoharan S Advances in Natural and Applied Sciences (ANAS) 9 (17) 2016.
- 50) Performance Enhancement In Single Phase Induction Motor A Novel Approach Using Labview Jethose V, Manoharan S Advances in Natural and Applied Sciences (ANAS) 9 (17),2016.
- 51) A Hybrid Voltage Multiplier using Active Diodes for Low Energy Harvesting Rathinamala S, Manoharan S Advances in Natural and Applied Sciences (ANAS) 9 (17),2016.
- 52) Photovoltaic Systems Using Cascaded Boost Converters and Sliding-Mode Control Thirumurugan V, Manoharan S Advances in Natural and Applied Sciences (ANAS) 9 (17), 2016.
- 53) Simulation of Energy Management System and Power Control of a Hybrid Power System Based on Renewable Energy Sources Karthick R, Manoharan S Advances in Natural and Applied Sciences (ANAS) 9 (17), 2016.
- 54) DESIGN AND IMPLEMENTATION OF THREE PHASE SHUNT APF CURRENT CONTROLLER WITH ANN TECHNIQUE S. Dhayanandh S , Manoharan S ARPN Journal of Engineering and Applied Sciences 11 (3), 2016.
- 55) Effective Sine Wave Generation from Photovoltaic's Cell Using M Fitness Function Rajesh Kanna R, Manoharan S Asian Journal of Information Technology 15 (17), 2016.
- 56) An Battery Performance Aware Optimal Solar Tracking System to Fulfill Home Appliance Need Rajeshkanna.R , Manoharan.S International Journal of Control Theory and Applications 9 (50), 2016.
- 57) Effective Tracking Methodology for photovoltaic's Cell using M Fitness Function Rajeshkanna.R, Manoharan.S International Journal of Printing, Packing and Allied science 4 (4),2016.
- 58) Cascade H-bridge converter based STATCOM for reactive power compensation MS Govindaraj V, Palpandian P, Kesavan E, Agalya A Discovery Engineering 4 (11), 2016.
- 59) A MODIFIED APPROACH FOR IMPROVEMENTS IN ENERGY EFFICIENCY OF AN INDUCTION FURNACE Dhayanandh S, Manoharan S International Journal of Applied Engineering Research 10 (55),2015.

- 60) Analysis of Power Processing Circuits for Low Power Energy Harvesting Applications S Rathinamala, S Manoharan International Journal of Innovative Science, Engineering & Technology 2015.
- 61) TUNING OF PID CONTROLLER USING FIREFLY ALGORITHM FOR CONCENTRATION CONTROL OF CONTINUOUS STIRRED TANK Agalya A, Kesavan E, .Nagaraj B,.Manoharan S International Journal of Applied Engineering Research 10 (1), 2015.
- 62) An Approach: Performance Analysis of Modified PID Structures to Control the Speed of a Separately Excited DC Motor Tharani S, Palpandian P, Gowthaman N, Manoharan S International Journal of Applied Engineering Research 10 (1), 2015.
- 63) Design and Analysis of ANFIS Controller for Resonant Converter Fed Servo Motor Divya R, Tharani S, Manoharan S Karpagam Journal of Engineering Research 2 (2), 2015.
- 64) A VOLTAGE BOOSTING CONVERTER FOR LOW RIPPLE APPLICATION Soniya V, Prithivi K, Ashok Kumar L, Manoharan S Karpagam Journal of Engineering Research 2 (2), 2015.
- 65) A Novel Approach To Of Power Oscillation Damping Using UPFC with PI Controller KGP Mohankumar GB, Manoharan S Karpagam Journal of Engineering Research 2 (2), 2015.