

Table of Contents

Volume 7 Number 6

May 2016

| | |
|---|-----|
| Content Addressable Memory Using Automatic Charge Balancing with Self-Control Mechanism and Master-Slave Match Line Design | |
| D. Jose, P. Suganya, P. N. Kumar..... | 597 |
| Design and FPGA-Implementation of Minimum PED Based K-Best Algorithm in MIMO Detector | |
| P. Ramasamy, M. B. Ahmedkhan, M. Rangasamy..... | 612 |
| Critical Data Delivery Using TOPSIS in Wireless Body Area Networks | |
| K. Suriyakrishnaan, D. Sridharan..... | 622 |
| Design and Implementation of Efficient Reversible Arithmetic and Logic Unit | |
| S. Saravanan, I. Vennila, S. Mohanram..... | 630 |
| Simulation and Implementation of Solar Powered Electric Vehicle | |
| A. B. Sankar, R. Seyezhai..... | 643 |
| Performance-Economic and Energy Loss Analysis of 80 KWp Grid Connected Roof Top Transformer Less Photovoltaic Power Plant | |
| S. S. Kumar, C. Nagarajan..... | 662 |
| Intelligent Controller for UPQC Using Combined Neural Network | |
| R. Saravanan, S. Manoharan..... | 680 |
| Efficient Global Threshold Vector Outlyingness Ratio Filter for the Removal of Random Valued Impulse Noise | |
| J. Amudha, R. Sudhakar..... | 692 |
| Multitude Classifier Using Rough Set Jelinek Mercer Naïve Bayes for Disease Diagnosis | |
| S. Prema, P. Umamaheswari..... | 701 |
| Stability Analysis of Multi-Dimensional Linear Time Invariant Discrete Systems within the Unity Shifted Unit Circle | |
| P. Ramesh..... | 709 |
| Certain Algebraic Test for Analyzing Aperiodic Stability of Two-Dimensional Linear Discrete Systems | |
| P. Ramesh..... | 718 |
| Sensorless Control of Four-Switch Inverter for Brushless DC Motor Drive and Its Simulation | |
| S. K. Shanmugam, M. Ramachandran, K. K. Kanagaraj, A. Loganathan..... | 726 |

| | |
|---|-----|
| Minimizing Time in Scheduling of Independent Tasks Using Distance-Based Pareto Genetic Algorithm Based on MapReduce Model | |
| D. Rajeswari, V. J. Senthilkumar..... | 735 |
| Performance Analysis of Malicious Node Detection and Elimination Using Clustering Approach on MANET | |
| S. Gopalakrishnan, P. M. Kumar..... | 748 |
| Hybrid Fuzzy Controller Based Frequency Regulation in Restructured Power System | |
| P. Anitha, P. Subburaj..... | 759 |
| A Multi Input Multi Output Converter for Hybrid Energy Systems | |
| T. B. Immanuel, A. Suresh, M. R. Rashmi..... | 771 |
| Realization of Unified Power Quality Conditioner for Mitigating All Voltage Collapse Issues | |
| P. Pugazhendiran, J. Baskaran..... | 779 |
| Design of Robust Controller for LFC of Interconnected Power System Considering Communication Delays | |
| T. J. Mary, P. Rangarajan..... | 794 |
| Improving Voltage Stability of Power System by Optimal Location of FACTS Devices Using Bio-Inspired Algorithms | |
| N. Archana, R. Vidhyapriya..... | 805 |
| An Approach for Damage Identification and Optimal Sensor Placement in Structural Health Monitoring by Genetic Algorithm Technique | |
| U. Muthuraman, M. M. Sai Hashita, N. Sakthieswaran, P. Suresh, M. Raj Kumar, P. Sivashanmugam..... | 814 |
| A Hybrid Associative Classification Model for Software Development Effort Estimation | |
| S. Saraswathi, N. Kannan..... | 824 |
| Performance Analysis of PI and Fuzzy Control for Modified LCC Resonant Converter Incorporating Boost Converter | |
| N. Madhanakkumar, T. S. Sivakumaran..... | 835 |
| Surface Area Estimation, Volume Change Detection in Lime Stone Quarry, Tirunelveli District Using Cartosat-1 Generated Digital Elevation Model (DEM) | |
| S. Karuppasamy, S. Kaliappan, R. Karthiga, C. Divya..... | 849 |
| RF MEMS Based Reconfigurable Rectangular Slotted Self Similar Antenna | |
| S. Anand, J. J. P. Gloria..... | 859 |
| Cluster Analysis to Assess Groundwater Quality in Erode District, Tamil Nadu, India | |
| G. Oorkavalan, S. M. Chidambaram, V. Mariappan, G. Kandaswamy, S. Natarajan..... | 877 |
| Cloud Computing-System Implementation for Business Applications | |
| S. S. Sargunam..... | 891 |

| | |
|--|------|
| Hybrid Energy-Efficient Transmission Protocol for Heterogeneous Wireless Sensor Networks | |
| R. J. Kavitha, B. E. Caroline..... | 897 |
| Solving Level Scheduling in Mixed Model Assembly Line by Simulated Annealing Method | |
| S. Ramalingam, R. A. Subramanian..... | 907 |
| A Novel Asymmetrical Single-Phase Multilevel Inverter Suitable for Hybrid Renewable Energy Sources | |
| C. P. Boopathy, M. Kaliamoorthy..... | 932 |
| Improved Dynamic Response of DC to DC Converter Using Hybrid PSO Tuned Fuzzy Sliding Mode Controller | |
| R. Anand, P. M. Mary..... | 946 |
| A Process Variation Tolerant OTA Design for Low Power ASIC Design | |
| R. Benschwartz, P. Sakthivel..... | 956 |
| An Innovative Design Approach to Control over Ad Hoc Networks | |
| S. Subburam, T. Senthilkumaran, S. Revthi, M. Mathvanan..... | 971 |
| Recognizing Expression Variant and Occluded Face Images Based on Nested HMM and Fuzzy Rule Based Approach | |
| P. Ramalingam, S. Dhanushkodi..... | 983 |
| Energy-Delay Efficient Unified Routing Protocol for Wireless Sensor Networks | |
| V. P. Jayachitra, G. Geetha, K. S. Vijay..... | 995 |
| Multi-Criteria Decision Making Using ELECTRE | |
| S. A. S. A. Mary, G. Suganya..... | 1008 |
| Integral Performance Criteria Based Analysis of Load Frequency Control in Bilateral Based Market | |
| P. Anitha, P. Subburaj..... | 1021 |
| Leakage Analysis of a Low Power 10 Transistor SRAM Cell in 90 nm Technology | |
| P. Muthusamy, S. Dhandapani..... | 1033 |
| An Intelligent Fuzzy Based Energy Detection Approach for Cooperative Spectrum Sensing | |
| S. Bharatula, M. Murugappan..... | 1042 |
| ART Based Reliable Method for Prediction of Agricultural Land Changes Using Remote Sensing | |
| M. P. Malini, M. C. S. Kumar, N. Sakthieswaran..... | 1051 |
| Blocking Probability in All-Optical WDM Network Using IMCA | |
| G. Karpagarajesh, M. Vijayaraj..... | 1068 |