WSEAS Transactions on Circuits and Systems

Print ISSN: 1109-2734
E-ISSN: 2224-266X
Contents: 2011

Acceptance Rate (for the years 2013 and 2014): 27.03%
Acceptance Rate = C/D where: C = the number of accepted papers, D= the number of submitted papers. Withdrawn Papers are not considered for the numbers C and D.

Topics:

Fundamental Theory, Network Theory and Applications, Nanostructures and nanotechnologies, Molecular Electronics, Molecular Computing, DNA Computing, Circuits and Networks inspired from Biology, Microelectronics, Microcircuits, Analog, Digital, Mixed-Mode Circuits, Electronics: Components, Devices, Systems, Silicon Devices: Technology, Modeling, Reliability, Optoelectronic Devices, Laser and Optical Systems, Thin Film Technologies, Very Large Scale Integration Systems (VLSI), Hardware/Software Codesign Very Large Scale Integration Systems (VLSI), Digital Filters, High Level Synthesis, Amplifiers, Nonlinear Circuits, Sensors, Physical Design, Time-Frequency and Wavelet Applications, Modelling and Simulation, CAD Tools, Circuits and Electronics for Data Conversion and S-D Modulation, Capacitor/Current Technoques, Prototype Devices and Measurement, Circuits and Systems for Control and Robotics, Electron Devices for Power Technology, High Voltages and Electric Machines, Device Physics, Physical Design, High-Level Synthesis and Testing, Non-Linear Circuits, Formal Verification, Semiconductors, Superconductivity Circuits, Computer-Aided Design, Instrumentation, Instrument-Computer Interface, Military Electronics, Electronics for Space exploration, Consumer Electronics, Circuits in Power Technology, Electron Devices for Video Technology, Circuits for Antennas Technology, Electron Devices and Systems for Radar and Sonar Systems, Circuit Models, Electrical and Electronic Measurement, Circuits for Industrial Applications, Circuit models for Electromagnetic Fields, Electronics for Signal Processing and other Applications, Neural Networks, Numerical Analysis and Circuits, Logic Synthesis, Automatic Control, Robotics, Dynamical Systems, Stochastic Systems, Simulation, Neural Networks, Fuzzy Systems, Evolutionary Computation, Fuzzy Logic and Circuits Design, Circuit Implementation for Fuzzy Systems, Multidimensional Circuits and Systems, Circuit Modelling and Scientific Computing with Applications in Science and Engineering.

Articles:

Transmission Line Protection based on Travelling Waves
Authors: Anuradha S Deshpande, Grishma S. Shah

Comparative Study of Three Shapes of DGS Pattern and Design of Compact Microstrip Low-Pass and Band-Pass Filters
Authors: Mouloud Challal, Frederick Labu, Mokrane Dehmas, Arab Azrar

A Novel Technique to Reduce Write Delay of SRAM Architectures
Authors: Swapnil Vats, R. K. Chauhan

A Fast Iterative Shrinkage-Thresholding Algorithm for Electrical Resistance Tomography
Authors: Zhang Lingling, Wang Huaxiang, Xu Yanbin, Wang Da

Investigation of Transient Models and Performances for a Doubly Fed Wind Turbine under a Grid Fault
Authors: Mingyu Wang, Bin Zhao, Hui Li, Chao Yang, Renjie Ye, Z. Chen

Study on the New Topology of Power Electronic Transformer
Authors: Zhibing Wang, Kushan Yu, Xiaoxin Zhou

Determination of Crystallizer Service Life on Continuous Steel Casting by Means of the Knowledge System
Authors: Jiri David, Milan Vrozina, Zora Jancikova

The Optimal Interval Partition and Second-Factor Fuzzy Set Bi on the Impacts of Fuzzy Time Series Forecasting
Authors: Chi-Chen Wang, Yueh-Ju Lin, Yu-Ren Zhang, Hsien-Lun Wong

Hierarchical Clustering in Power System Based on Fuzzy Transitive Closure
Authors: Shu-Chen Wang

Advanced Modelling of Complex Processes by Fuzzy Networks
Authors: Alexander Gegov, Nedyalko Petrov, Boriana Vatchova, David Sanders

Simulation and Research on Three-Phase Parallel PFC with Feed-Forward Compensation
Authors: Chen Qian, He Mingzhi, Trillion Q. Zheng

Investigation of Some Quite Interesting Divisibility Situations in a Signature Analyzer Implementation
Authors: Afaq Ahmad

A New CMOS Current Controlled Oscillator with Minimum Phase Noise Based on a Low Parasitic Resistance CCII
Authors: Samir Ben Salem, Achwek Ben Saied, Dorra Sellami Masmoudi, Mourad Loulou

ASIC Implementation of High Speed Processor for Calculating Discrete Fourier Transformation using Circular Convolution Technique
Authors: P. Saha, A. Banerjee, A. Dandapat, P. Bhattacharyya

Full-Graph Solution of Switched Capacitors Circuits by Means of Two-Graphs
Authors: Bohumil Brtnik

On Brayton-Moser Network Decomposition and State-Space Energy based Generalization Of Nose-Hoover Dynamics
Authors: Josef Hrusak, Milan Stork, Daniel Mayer

Comparison of Lyapunov Function for Different Strategies of Optimization of Analogue Networks using Parallel Computing
Authors: Alexander Zemliak, Antonio Michua

An Efficient EPI and Energy Consumption of 32 bit ALU Using Shannon Theorem Based Adder Approach
Authors: C. Senthilpari, G. Ramanamurthy, P. Velrajkumar

A Robust Asynchronous Early Output Full Adder
Authors: Padmanabhan Balasubramanian

Possible Solution of Decoupling and Invariance of Multi-variable Control Loop by Using Binding and Correction Members
Authors: Pavel Navratil, Libor Pekar

Development of an Advanced Embedded System for Description of Electrophysiological Phenomena in Ornamental Plants by Biosignals Processing
Authors: Kalovrektis K., Ganetsos Th., Shammas N. Y. A., Taylor I., Lykas Ch., Andonopoulos I., Lekakis I.

Investigation Life Time Model of 22 kV XLPE Cable for Distribution System Applications in Thailand
Authors: Boonruang Marungsri, Anucha Rawangpai, Nimit Chomnawang

SVC Implementation Using Neural Networks for an AC Electrical Railway
Authors: Saeid Veysi Raygani, Bijan Moaveni, Seyed Saeed Fazel, Amir Tahavorgar

About the Definition of Parameters and Regimes of Active Two-Port Networks with Variable Loads on the Basis of Projective Geometry
Authors: Penin Alexandr

A Preventive Control Model for Static Voltage Stability and Thermal Stability based on Power Transfer Capabilities of Weak Branches
Authors: Wei Yan, Xiuqiong Hu, Juan Yu, Wenyuan Li

An Enhanced Load Transfer Scheme for Power Distribution Systems Connected with Distributed Generation Sources
Authors: Wen-Chih Yang, Wei-Tzer Huang

A Doubly-Excited DC- to- 3-Phase AC Buck-Boost Converter Gives Sinusoidal Waveforms: Design, Simulation & Control
Authors: M. Ezzat

Robots Implementation for Odor Source Localization Using PSO Algorithm
Authors: Jatmiko W, Jovan F, Dhiemas R.Y.S, T. Fukuda, K. Sekiyama

A Transfer Method of Public Transport Network Based on Adjacency Matrix Multiplication Searching Algorithm
Authors: Bo Wang, Xu-Hua Yang

Interleaved Soft-Switching Buck Converter with Coupled Inductors
Authors: Cheng-Tao Tsai, Chih-Lung Shen

An Analyze on a Wood Processing Automatic Machine
Authors: Gabriel Nicolae Popa, Corina Maria Dinis, Sorin Ioan Deaconu, Angela Iagar

Unbalanced-Grid-Fault Ride-Through Control for a Doubly Fed Induction Generator Wind Turbine with Series Grid-Side Converter
Authors: Yong Liao, Hui Li, Jun Yao

Identification of Impending Interturn Faults in Random Wound Induction Motors Used in Adjustable Speed Drives
Authors: S. Ponnuswamy Rajkumar, J. Sudesh Johny, A. Ebenezer Jeyakumar

Application of Neural Networks for Control of Inverted Pendulum
Authors: Valeri Mladenov

Design, Implementation and Evaluation of an Optimal Iterative Learning Control Algorithm
Authors: V. Vita, A. Vitas, G. E. Chatzarakis

An Evaluation for the design of Asynchronous Systems
Authors: Sun-Yen Tan, Wen-Tzeng Huang

Nonlinear Integrator Backstepping for Traffic Flow Speed Control of Automated Freeway System
Authors: Xu-Hua Yang, Sheng-Yong Chen, Wan-Liang Wang

Transformations for Direct Design of 2-D Filters from Appropriate 1-D Functions
Authors: Nikos E. Mastorakis

New General Transformations for 2-D FIR and IIR Filters' Design
Authors: Nikos E. Mastorakis