# WSEAS Transactions on Circuits and Systems

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# 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 Withdrawn Papers are not considered for the numbers C and D.

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## **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:

Competent Universal Reversible Logic Gate Design for Quantum dot Cellular Automata

Authors: Kunal Das, Debashis De, Mallika De

Simulation and Realization of a Controlled Solar Water Heating System

Authors: Messaouda Azzouzi, Belkacem Attia, Nikos E Mastorakis, Amin Daneshmand Malayeri

Real-Time On Line Tuning of Fuzzy Controller for Two Link Rigid-Flexible Robot Manipulators

Authors: Marwan A., Farrukh Nagi, Ksm Sahari, Hanim S.

Modelling of Characteristic Parameters for Asymmetric DHDMG Mosfet

Authors: Swapnadip De, Angsuman Sarkar, Chandan Kumar Sarkar

Optimization of Gate - Source/Drain Underlap on 30 nm Gate Length FinFET Based LNA Using TCAD Simulations

Authors: K. K. Nagarajan, N. Vinodhkumar, R. Srinivasan

Development of Current-Fed ICPT System with Quasi Sliding Mode Control

Authors: Xiao Lv, Yue Sun, Zhi-Hui Wang, Chun-Sen Tang

Development and Demonstration of 12.4 GHz SiGe HBT Mixer for Radio over Fiber Applications

Authors: Norliza Mohamed, Sevia Mahdaliza Idrus, Abu Bakar Mohammad, Syamsuri Yaakob

Switched-Current Techniques: An Overview of Cumulative SI-Related Errors on Dynamic and Static Performances of 2nd Order LP-ΣΔMs

Authors: Karim Abbes, Mohamed Masmoudi

Self-Tuning PI-Type Fuzzy Direct Torque Control for Three-phase Induction Motor

Authors: José L. Azcue P., Alfeu J. Sguarezi Filho, Ernesto Ruppert

Optimizing Large-Scale Combinatorial Problems using Max-Min Ant System Algorithm

Authors: Aristidis Vlachos

Design and Analyse of Silicon Carbide JFET Based Inverter

Authors: Zheng Xu, Sanbo Pan

Generic Stochastic Effect Model of Noise in Controlling Source to Electronically Controlled Device

Authors: Rawid Banchuin

A Novel Low Input Impedance Low Power Fully Differential Current Buffer with ±0.65V Supply Voltage and high bandwidth of 520MHz

Authors: Leila Safari, Seyed Javad Azhari

The Counterfeit Components V-I Characteristics Difference Study

Authors: Neumann Petr, Adamek Milan, Skocik Petr

## Design of Low Power Full Adder Using Active Level Driving Circuit

Authors: K. N. Vijeyakumar, V. Sumathy, M. Nithya, C. Venkatnarayanan, V. Thiruchitrabala

<u>Intelligent Approach to Determine the Type of Objects with Low Effective Reflective Surface, Built with Stealth Technology</u>

Authors: M. Kostova, V. Djurov

Intelligent Ziegler-Nichols-Based Fuzzy Controller Design for Mobile Satellite Antenna Tracking System with Parameter Variations Effect

Authors: Jium-Ming Lin, Po-Kuang Chang

## Advanced Design of TQ/IQT Component for H.264/AVC Based on SoPC Validation

Authors: A. Ben Atitallah, H. Loukil, P. Kadionik, N. Masmoudi

## Coordinated Control of a Series-Parallel Hybrid Electric Bus During EV/HEV Mode Transition

Authors: Lei Wang, Yong Zhang, Jie Shu, Cheng-Liang Yin

## A Highly Reliable Platform with a Serpentine Antenna for IEEE 802.15.4 over a Wireless Sensor Network

Authors: Chiu-Ching Tuan, Hung-Li Tseng, Yuan-Jen Chang, Chin-Hsing Chen, H.-D. J. Jeong, Wen-Tzeng Huang

# Short-Term Load Forecasting Method Based on Fractal Theory

Authors: Hongsheng Su

STATCOM Control Strategy Based on Lyapunov Energy Function and Fuzzy Logic Control for Improving Transient Stability of Multimachine Power System

Authors: Prechanon Kumkratug

<u>Effective Optimization of the Control System for the Cement Raw Meal Mixing Process: Simulating the Effect of the Process Parameters on the Product Homogeneity</u>

Authors: Dimitris Tsamatsoulis

<u>Performance Analysis of a Multi-Source, Single-Output, Buck-Boost DC-AC Converter Feeding Active Power</u> to a 3-Phase Distribution Grid

Authors: M. Ezzat

## New Model for the Search for Comfort Through Surveys

Authors: Pablo Aparicio Ruiz, José Guadix Martín, Jesús Muñuzuri Sanz, Luis Onieva Giménez

## <u>Self-Algorithm Traffic Light Controllers for Heavily Congested Urban Route</u>

Authors: S. K. Subramaniam, M. Esro, F. L. Aw

# Impact on the Fuzzy Modeling in Operation of Electric Distribution Systems

Authors: Gheorghe Grigoras, Gheorghe Cartina

## A New Fuzzy Positive and Negative Ideal Solution for Fuzzy TOPSIS

Authors: Mehdi Amiri-Aref, Nikbakhsh Javadian, Mohammad Kazemi

FPGA Implementation of Elliptic Curve Cryptography Engine for Personal Communication Systems

Authors: M. B. I. Reaz, J. Jalil, H. Husian, F. H. Hashim

A Novel Complete High Precision Standard Linear Element-Based Equivalent Circuit Model of CMOS Gyrator-C Active Transformer

Authors: Rawid Banchuin

<u>Fuzzy Internal Model Control of Nonlinear Plants with Time Delay based on Parallel Distributed</u>
<u>Compensation</u>

Authors: Snejana Yordanova, Tasho Tashev

A Hardware Architecture for Motion Compensated Video Frame Rate Up-Conversion

Authors: Huong Ho

**Dynamic Performance Analysis of T Network Impedance Matching** 

Authors: Rui-Jin Liao, Jian-Wen Tan, Hua Wang, Long Li, Sheng-Ze Qiang

Fuzzy Logic Based Smart Anaesthesia Monitoring System in the Operation Theatre

Authors: Mirza Mansoor Baig, Hamid Gholamhosseini, Michael J. Harrison

Design of Logical Structures and Characteristics analysis of AOI for Quantum Dot Cellular Automata

Authors: S. Karthigai Lakshmi, G.Athisha

Electromagnetic Field of the Large Power Cables and Impact on the Human Health

Authors: Daniela Carstea