

# WSEAS Transactions on Computers

Print ISSN: 1109-2750

E-ISSN: 2224-2872

Contents: 2012

**Impact factor according to the citations in Thomson Reuters (ISI Web of Knowledge) for 2014: 0,036**

Impact Factor =  $A/B$  where: A = the number of citations by Thomson Reuters (ISI Web of Knowledge) in 2014 for the published papers in this journal in 2012 and 2013. B = the total number of papers published by this journal in 2012 and 2013.

**Acceptance Rate (for the years 2013 and 2014): 19.86 %**

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 Withdrawn Papers are not considered for the numbers C and D.

## Editorial Board:

### Editor-in-Chief

Prof. Josip Musić, University of Split, Croatia

[URL](#), Email: [jmusic@fesb.hr](mailto:jmusic@fesb.hr)

### Associate Editors:

Prof. Kleanthis Psarris, The City University of New York, USA

[URL](#), Email: [KPsarris@brooklyn.cuny.edu](mailto:KPsarris@brooklyn.cuny.edu)

Prof. Maurice Margenstern, Université de Lorraine, France

[URL](#) and [URL](#), Email: [maurice.margenstern@univ-lorraine.fr](mailto:maurice.margenstern@univ-lorraine.fr)

Prof. Sarantos Kapidakis, Ionio University, Greece

[URL](#), Email: [sarantos@ionio.gr](mailto:sarantos@ionio.gr)

Prof. Theodore B. Trafalis, University of Oklahoma, USA

[URL](#), Email: [ttrafalis@ou.edu](mailto:ttrafalis@ou.edu)

Prof. Kewen Zhao, University of Qiongzhou, China

[URL](#) , Email: [kwzhao2006@sohu.com](mailto:kwzhao2006@sohu.com)

Prof. Claudio Talarico, Gonzaga University, Spokane, WA, USA

[URL](#), Email: [talarico@gonzaga.edu](mailto:talarico@gonzaga.edu)

Prof. Zhuo Li, Beijing University of Technology, Beijing, China

[URL](#), Email: [zhuoli@bjut.edu.cn](mailto:zhuoli@bjut.edu.cn)

Prof. Charles Suffel, Stevens Institute of Technology, Hoboken, NJ, USA

[URL](#), Email: [csuffel@stevens.edu](mailto:csuffel@stevens.edu)

Prof. Shuliang Li, The University of Westminster, London, UK

[URL](#), Email: [S.Li05@westminster.ac.uk](mailto:S.Li05@westminster.ac.uk)

Prof. Dimitrios A. Karras, Sterea Hellas Institute of Technology, Greece

[URL](#), Email: [dakarras@teihal.gr](mailto:dakarras@teihal.gr)

Prof. Kun Chang Lee, Sungkyunkwan University, Korea

[URL](#), Email: [leekc@skku.edu](mailto:leekc@skku.edu)

### **Topics**

Computer Languages Software Engineering Data Structures File Structures and Design Data Bases Compilers Knowledge and Data Technology Pattern Analysis and Machine Intelligence File Structures for on-line Systems Operating Systems Parallel and Distributed Systems Information Systems Complexity Theory Computing Theory Numerical and Semi-Numerical Algorithms Object-Oriented Programming Parallel Programming Computerised Signal Processing Computer Graphics Computational Geometry Machine Vision Computer Elements Computer Architecture Computer Packaging Fault Tolerance Computing Mass Storage Systems Microprocessors and microcomputers Multiple valued Logic Numerical Analysis Finite Element Genetic Algorithms Game Theory Operations Research Optimization Techniques Real Time Systems Virtual Reality Computer Algebra Symbolic Computation Simulation Pattern Analysis Machine Intelligence Adaptive and Learning Systems Classification Identification Chaos Fractals and Bifurcations Analysis and design tools Simulation Modelling Emulation Visualization Digital Libraries Hardware Engineering Programming Techniques in Communications Networks Management and Economic Systems Multimedia Video technologies Simulation Techniques Tools Computers in Armed Forces Software for Communications Development and Simulation Social Implications of Modern Communications Soft Computing and Communications Smart Interfaces Intelligent Systems Supercomputers and Supercomputing Internet and Internet Computing Intelligent Agents Mobile Computing E-commerce Privacy Problems Hardware/Software Codesign, Cryptography Computer/Communications Integration Education

## Articles:

### [Pa-GFDP: An Algorithm Enhancing Reliability of WSNs](#)

Authors: Guiping Wang, Shuyu Chen, Huawei Lu, Mingwei Lin

### [Embedded Event and Trend Diagnostics to extract LDA Topic Models on Real Time Multi-Data Streams](#)

Authors: Walisa Romsaiyud, Wichian Premchaiswadi

### [An Optimistic Concurrency Control Approach Applied to Temporal Data in Real-time Database Systems](#)

Authors: Walid Moudani, Nicolas Khoury, Mohamad Hussein

### [Energy Efficient Routing with Transmission Power Control based Biobjective Path Selection Model for Mobile Ad-hoc Network](#)

Authors: V. Bhanumathi, R. Dhanasekaran

### [Fuzzy Reasoning-Based Edge Detection method using Multiple Features](#)

Authors: Li Fang, Weiren Shi, Shuhan Chen

### [Learning Algorithm of Kohonen Network with Selection Phase](#)

Authors: Mohamed Ettaouil, Essafi Abdelatifi, Fatima Belhabib, Karim El Moutaouakil

### [Estimation of Algae Growth Model Parameters by a Double Layer Genetic Algorithm](#)

Authors: Artorn Nokkaew, Busayamas Pimpunchat, Charin Modchang, Somkid Amornsamankul, Wannapong Triampo, Darapond Triampo

### [Hardware Modeling of Binary Coded Decimal Adder in FPGA](#)

Authors: Muhammad Ibn Ibrahimy, Md. Rezwanul Ahsan, Iksannurazmi B. Bambang Soeroso

### [Image Sequence Analysis Based on the 3D Relative Potential Inspired by Physical Electro-Static Field](#)

Authors: Xiaodong Zhuang, N. E. Mastorakis

### [Fairness in Physical Products Delivery Protocol](#)

Authors: Abdullah Mohammed Alaraj

### [Classification and Evaluation of Document Image Retrieval System](#)

Authors: Reza Tavoli

### [SPEM 2.0 Extension for Pervasive Information Systems](#)

Authors: José E. Fernandes, Ricardo J. Machado

### [Website Development and Web Standards in the Ubiquitous World: Where Are We Going?](#)

Authors: Serena Pastore

[A Reusable and Interoperable Semantic Classification Tool Which Integrates Owl Ontology](#)

Authors: Saadia Lgarch, Mohammed Khalidi Idrissi, Samir Bennani

[Geometry, Duality and Robust Computation in Engineering](#)

Authors: Vaclav Skala

[The ChipCflow Project to Accelerate Algorithms using a Dataflow Graph in a Reconfigurable System](#)

Authors: Antonio Carlos Fernandes Da Silva, Bruno De Abreu Silva, Joelmir Jose Lopes, Jorge Luiz E Silva

[Research and Implementation of Peer-to-Peer Network Topology based on Balanced Binary Tree](#)

Authors: Zong Hu

[Identification of Noisy Speech Signals using Bispectrum-based 2DMFCC and Its Optimization through Genetic Algorithm as a Feature Extraction Subsystem](#)

Authors: Benyamin Kusumoputro, Agus Buono, Lina

[Communication Complexities: A Software Construction Perspective](#)

Authors: Lipeng Yong

[Capturing Form of Non-verbal Conversational Behavior for Recreation on Synthetic Conversational Agent EVA](#)

Authors: Izidor Mlakar, Matej Rojc

[Re-Optimizing the Performance of Shortest Path Queries Using Parallelized Combining Speedup Technique based on Bidirectional Arc Flags and Multilevel Approach](#)

Authors: R. Kalpana, P. Thambidurai

[Design and Implementation of an Efficient SCA Core Framework for a DSP Platform](#)

Authors: Wael A. Murtada, Mohamed M. Zahra, Magdi Fikri, Mohamed I. Yousef, Salwa El-Ramly

[A Hybrid Approach for Detecting, Preventing, and Traceback DDoS Attacks](#)

Authors: Ali E. El-Desoky, Marwa F. Aread, Magdy M. Fadel

[WML Detection of Brain Images Using Fuzzy and Possibilistic Approach in Feature Space](#)

Authors: M. Anitha, P. Tamiye Selvy, V. Palanisamy

[Parallel Particle Swarm Optimization on Graphical Processing Unit for Pose Estimation](#)

Authors: Vincent Roberge, Mohammed Tarbouchi

[Development of CAD Algorithms for Bezier Curves/Surfaces Independent of Operating System](#)

Authors: Yogesh Kumar, S. K. Srivastava, A. K. Bajpai, Neeraj Kumar

[Hand Written English Character Recognition Using Column-wise Segmentation of Image Matrix \(CSIM\)](#)

Authors: Rakesh Kumar Mandal, N. R. Manna

[On Performance Analysis of Hybrid Intelligent Algorithms \(Improved PSO with SA and Improved PSO with AIS\) with GA, PSO for Multiprocessor Job Scheduling](#)

Authors: K. Thanushkodi, K. Deeba

[A Distributed Shared Memory Cluster Architecture With Dynamic Load Balancing](#)

Authors: Minakshi Tripathy, C. R. Tripathy

[Adjusted Artificial Bee Colony \(ABC\) Algorithm for Engineering Problems](#)

Authors: Milan Tuba, Nebojsa Bacanin, Nadezda Stanarevic

[Adaptive Visualization of 3D Meshes Using Localized Triangular Strips](#)

Authors: M.-H. Mousa, M.-K. Hussein

[Dynamic Tabu Search for Dimensionality Reduction in Rough Set](#)

Authors: Zalinda Othman, Azuraliza Abu Bakar, Salwani Abdullah, Mohd Zakree, Ahmad Nazri, Nelly Anak Sengalang

[Integrating SOA and Cloud Computing for SME Business Objective](#)

Authors: Ashish Seth, Himanshu Agarwal, Ashim Raj Singla

[Novel Intuitionistic Fuzzy C-Means Clustering for Linearly and Nonlinearly Separable Data](#)

Authors: Prabhjot Kaur, A. K. Soni, Anjana Gosain

[Source Anonymization Using Modified New Variant ElGamal Signature Scheme](#)

Authors: Jhansi Vazram B., Valli Kumari V., Murthy J. V. R.

[Reliability of Component Based Systems – A Critical Survey](#)

Authors: Kirti Tyagi, Arun Sharma

[Neural Network Modeling for an Intelligent Recommendation System Supporting SRM for Universities in Thailand](#)

Authors: Kanokwan Kongsakun, Chun Che Fung

[Building a Book Recommender System Using Time Based Content Filtering](#)

Authors: Chhavi Rana, Sanjay Kumar Jain

[Locating Services in Legacy Software: Information Retrieval Techniques, Ontology and FCA Based Approach](#)

Authors: Mostefai Abdelkader, Malki Mimoun, Boudchiha Djeloul

[Efficient Binary Tree Multiclass SVM Using Genetic Algorithms for Vowels Recognition](#)

Authors: Boutkhil Sidaoui, Kaddour Sadouni

[Data Mining QFD for The Dynamic Forecasting of Life Cycle under Green Supply Chain](#)

Authors: Chih-Hung Hsu, An-Yuan Chang, Hui-Ming Kuo