# WSEAS Transactions on Biology and Biomedicine

Contents: 2011

Print ISSN: 1109-9518 E-ISSN: 2224-2902

# Acceptance Rate (for the years 2013 and 2014): 29.67%

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 Withdrawn Papers are not considered for the numbers C and D.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. Charles A. Long, Professor Emeritus, University of Wisconsin, Stevens Point, Wisconsin, USA

### **Associate Editors:**

Prof. Ivana Horova, Masaryk University, Czech Republic

Prof. Wolfgang Wenzel, Institute for Nanotechnology, Germany

Prof. Seiji Shibasaki, Hyogo University of Health Sciences, Japan

Prof. Gary A. Lorigan, Miami University, USA

Prof. Nikolai N. Modyanov, University of Toledo, USA

Prof. Dhavendra Kumar, University of South Wales, UK

Prof. Geoffrey Arden, European Vision Institute, UK

Prof. Photios Anninos, Democritus University of Thrace, Alexandroupolis, Greece

Prof. Tuan Pham, James Cook University, Townsville, Australia

Prof. W. Lakin, University of Vermont, USA

Prof. Lucio Tommaso De Paolis, University of Salento, Italy

Prof. Jean-Michel Jault, Institut de Biologie Structurale, France

Prof. Hassane Oudadesse, University of Rennes 1, France

Prof. Anita H. Corbett, Emory University School of Medicine, Atlanta, GA, USA

- Prof. Toshiharu Horie, Teikyo Heisei University, Japan
- Prof. Vadim V. Sumbayev, University of Kent, UK
- Prof. Andre Surguchov, University of Kansas Medical Center, Kansas City, USA
- Prof. George Anastassopoulos, Democritus University of Thrace, Alexandroupolis, Greece
- Prof. Rona R. Ramsay, University of St Andrews, North Haugh, St Andrews, UK
- Prof. Daniel Martins-de-Souza, University of Cambridge, UK
- Prof. Roberta Chiaraluce, Sapienza Universita di Roma, Roma, Italy
- Prof. George Perry, The University of Texas at San Antonio, USA
- Prof. David Brown, University of Bath, UK
- Prof. Gertz I. Likhtenshtein, Ben-Gurion University of the Negev, Israel
- Prof. Ziad Fajloun, Universite Libanaise, Lebanon
- Prof. Vivo Turk, Jozef Stefan Institute, Slovenia
- Prof. Makoto Komiyama, University of Tsukuba, Japan
- Prof. Hundie Tesfaye, Charles University, Prague, Czech Republic
- Prof. Shunsuke Meshitsuka, Tottori University, Japan
- Prof. George A. Zachariadis, Aristotle University, Greece

## **Topics:**

Molecular Dynamics Biochemistry Biophysics Quantum Chemistry Molecular Biology Cell Biology Immunology Neurophysiology Genetics Population Dynamics Dynamics of Diseases Bioecology Epidemiology Social Dynamics PhotoBiology, PhotoChemistry Plant Biology Microbiology Immunology Bioinformatics Signal Transduction Environmental Systems Psychological and Cognitive Systems Pattern Formation Evolution, Game Theory and Adaptive Dynamics Bioengineering Biotechnolgies Medical Imaging 2-dimensional and 3-Dimensional Signal Processing Feedback Control in Biology and Chemistry Fluid Mechanics and Applications in Biomedicine Space Medicine and Biology Nuclear Biology and Medicine Cancer Therapy and Mathematical Models Protection from Nuclear Accidents Automatic Control in Chemical Processes Speech Synthesis Impulsive Differential Equations in Biology

### **Articles:**

Computational Techniques and Validation of Blood Flow Simulation

Authors: Luisa Sousa, Catarina Castro, Carlos Antonio, Rui Chaves

Optimization of Pancreas Measurement Techniques Based on Ultrasound Images

Authors: Wan Mahani Hafizah, Wong Wei Yun, Eko Supriyanto

Population Biology Models with Time-Delay in a Noisy Environment

Authors: Andre A. Keller

<u>Computerized Anisotropic Diffusion of Two Dimensional Ultrasonic Images using Multi-Direction</u>
<u>Spreading Approaches</u>

Authors: Lai Khin Wee, Hum Yan Chai, Eko Supriyanto

<u>Large Eddy Simulation of Stenotic Flow forWall Shear Stress Estimation - Validation and Application</u>

Authors: Roland Gardhagen, Jonas Lantz, Fredric Carlsson, Matts Karlsson

**Ecoepidemics with Two Strains: Diseased Predators** 

Authors: Fabio Roman, Federica Rossotto, Ezio Venturino

Prostate Tumor Segmentation for Gamma Image Using Region Growing Approaches

Authors: Lai Khin Wee, Eko Supriyanto, Yeoh Jing Wui, Nuraini Md Isa, Bustanur Rosidi

Ultrasound Images Edge Detection using Anisotropic Diffusion in Canny Edge Detector Framework

Authors: Hum Yan Chai, Lai Khin Wee, Eko Supriyanto

<u>Extracted Haralick's Texture Features and Morphological Parameters from Segmented Multispectrale</u> <u>Texture Bio-Images for Classification of Colon Cancer Cells</u>

Authors: Ahmad Chaddad, Camel Tanougast, Abbas Dandache, Ahmed Bouridane

A Different Approach of the Manufacturing Method used to Demonstrate the Effect of Halogenated Organic Compounds and Aromatic Hydrocarbons to the Composite Teeth Denture Base Resin Tensile Strength

Authors: Adelina Elena Stoia, Anca Tudor, Bandur Gheza

<u>Computer Assisted Automatic Sleep Scoring System Using Relative Wavelet Energy Based Neuro Fuzzy Model</u>

Authors: Girisha Garg, Vijander Singh, J. R. P Gupta, A. P. Mittal, Sushil Chandra

<u>Bradykinin B1 Receptor Overexpression is Positively Correlated with Increased Histidine Decarboxylase</u> (HDC) Activity – A Potential Role in the Pathophysiology of Diabetic Placenta

Authors: Dariusz Szukiewicz, Michal Pyzlak, Habib Alkhalayla, Arlena Szukiewicz, Slawomir Maslinski