# WSEAS Transactions on Fluid Mechanics

Contents: 2012 Print ISSN: 1790-5087 E-ISSN: 2224-347X

## Acceptance Rate (for the years 2013 and 2014): 28.75%

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 Withdrawn Papers are not considered for the numbers C and D.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

Professor Pradip Majumdar
Department of Mechanical Engineering
Northern Illinois University
Dekalb, Illinois 60115, USA
Email: <a href="mailto:pmajumdar@niu.edu">pmajumdar@niu.edu</a>

### **Associate Editors:**

Prof. T. J. Chung, The University of Alabama in Huntsville, Huntsville, Alabama, USA

Prof. Nicolas Galanis, Universite de Sherbrooke, Sherbrooke, Montreal, Canada

Prof. Andrei G. Fedorov, Georgia Institute of Technology, Atlanta, Georgia, USA

Prof. Fotis Sotiropoulos, Georgia Institute of Technology, Atlanta, Georgia, USA

Prof. Qinjun Kang, Earth and Environmental Sciences Division, Los Alamos National Laboratory, New Mexico, USA

Prof. Isaac Kuo-Kang Liu, University of Warwick, Coventry, UK

Prof. Merieme Chadid, Nice Sophia Antipolis University, Nice, France

Prof. Boming Yu, Huazhong University of Science and Technology, Hubei, China

Prof. A. C. Benim, Duesseldorf University of Applied Sciences, Duesseldorf, Germany

Prof. Wenchang Tan, Peking University, Beijing, China.

Prof. Joseph T. C. Liu, Brown University, Rhode Island, USA

Prof. Kai H. Luo, School of Engineering Sciences, University of Southampton,

Southampton, UK

Prof. Karan Kaler, University of Calgary, Calgary, Alberta, Canada

Prof. Oleg V. Vasilyev, University of Colorado, Boulder, Colorado, USA

Prof. Chang Kyun Choi, Seoul National University, Seoul, Korea

Prof. Oh-hyun Rho, Seoul National University, Seoul, Korea

Prof. Mahmoud Jamiolahmady, Heriot-watt University, Edinburgh, UK

Prof. Falin Chen, National Taiwan University, Taipei, Taiwan

Prof. Siavash Sohrab, Northwestern University, Illinois, USA

Prof. Bodo Ruck, University of Karlsruhe, Karlsruhe, Germany

Prof. Roger Grimshaw, Loughborough University, Loughborough, Leicestershire, UK

Prof. Alexander Doinikov, Belarusian State University, Minsk, Belarus

Prof. Vitoriano Ruas, Universite Pierre et Marie Curie (Paris VI), Paris, France

Prof. Gennaro Cardone, University of Naple (Napoli), Italy

Prof. David Katoshevski, Ben-Gurion University of the Negev, Beer-Sheva, Israel

Prof. B. C. Meikap, Indian Institute of Technology, Kharagpur, India

Dr. Ciprian Iliescu, Senior Research Scientist, Institute of Bioengineering and Nanotechnology, Singapore

## **Topics**

Mathematical Modelling in fluid mechanics Simulation in fluid mechanics Numerical methods in fluid mechanics Convection, heat and mass transfer Experimental Methodologies in fluid mechanics Thin film technologies Multiphase flow Boundary layer flow Material properties Fluid structure interaction Hydrotechnology Hydrodynamics Coastal and estuarial modelling Wave modelling Industrial applications Environmental Problems Air Pollution Problems Fluid Mechanics for Civil Engineering Fluid Mechanics in Geosciences Flow visualisation Biofluids Meteorology Waste Management Environmental protection Management of living resources Mathematical models Management of Rivers and Lakes Underwater Ecology Hydrology Oceanology Ocean Engineering

#### Articles:

Simulation of Ventilation Effects on Indoor Radon in a Detached House

Authors: Keramatollah Akbari, Jafar Mahmoudi, Robert Oman

<u>Frink, Parikh and Pirzadeh and Liou and Steffen Jr. TVD Algorithms and Implicit Formulations Applied to the Euler Equations in 2D</u>

Authors: Edisson Sávio De Góes Maciel

Two-phase Flow of a Third Grade Fluid Between Parallel Plates

Authors: A. M. Siddiqui, M. K. Mitkova, A. R. Ansari

<u>Simulation of a Distribution Transformer</u>

Authors: Alejandro Roberto Tello Campos, Ignacio Carvajal Mariscal, Saul Garcia Hernandez

Spatial Evolution of Mixing Layers: Effects of Shear and Convection

Authors: Mohammed A. Azim

A Review of Some Numerical Methods to the Euler Equations in Two-Dimensions

Authors: Edisson Sávio De Góes Maciel

Spatial Evolution of Mixing Layers: Effects of Shear and Convection

Authors: Mohammed A. Azim

A New Solution of Euler's Equation of Motion with Explicit Expression of Helicity

Authors: Tsutomu Kambe

MathCAD Solutions for Problem of Laminar Boundary-Layer Flow

Authors: Daniela Cârstea

MGD Application to a Blunt Body in Two-Dimensions

Authors: Edisson Sávio De Góes Maciel

One Approach to Adaptive Control of a Tubular Chemical Reactor

Authors: Petr Dostál, Vladimír Bobál, Ji?í Vojt?šek, Zden?k Babík

Analysis of Flow Field Across Blunt Fin with Dimples – Experimentation

Authors: Muthu Kumara Samy Sekaran, B. Achu Naik