WSEAS Transactions on Signal Processing

Contents: 2013 Print ISSN: 1790-5052 E-ISSN: 2224-3488

Acceptance Rate (for the years 2013 and 2014): 27.59%

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 Withdrawn Papers are not considered for the numbers C and D.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 Nikos E. Mastorakis
Department of Industrial Engineering,
Technical University of Sofia,
Kliment Ohridski 8,
1000 Sofia, Bulgaria

Associate Editors:

- Prof. Kamisetty Rao, (Fellow IEEE), University of Texas at Arlington, USA
- Prof. Pan Agathoklis, University of Victoria, Canada
- Prof. Tadeusz Kaczorek, (IEEE Fellow), Warsaw University of Technology, Poland
- Prof. Demetri Terzopoulos, (IEEE Fellow, ACM Fellow), University of California, Los
- Angeles
- Prof. Yuriy S. Shmaliy, (IEEE Fellow), The University of Guanajuato, Mexico
- Prof. Georgios B. Giannakis, (IEEE Fellow), University of Minnesota, USA
- Prof. Abraham Bers, (IEEE Fellow), MIT, USA
- Prof. Brian Barsky, (IEEE Fellow), University of Berkeley, USA
- Prof. Aggelos Katsaggelos, (IEEE Fellow), Northwestern University, USA
- Prof. Nikolaos Paragios, Ecole Centrale Paris, France
- Prof. Nikolaos G. Bourbakis, (IEEE Fellow), Wright State University, USA
- Prof. Lei Xu, (IEEE Fellow), Chinese University of Hong Kong, Hong Kong
- Prof. Wasfy B Mikhael, (IEEE Fellow), University of Central Florida Orlando, USA
- Prof. Sidney Burrus, (IEEE Fellow), Rice University, USA
- Prof. Biswa N. Datta, (IEEE Fellow), Northern Illinois University, USA
- Prof. Narsingh Deo, (IEEE Fellow, ACM Fellow), University of Central Florida, USA
- Prof. Hisashi Kobayashi, Princeton University, USA
- Prof. Leonid Kazovsky, Stanford University, USA
- Prof. Steven Collicott, Purdue University, West Lafayette, IN, USA
- Prof. Dimitri Kazakos, Texas Southern University, USA
- Prof. Stephen Weinstein, Columbia University, USA
- Prof. Dharma P. Agrawal, University of Cincinnati, Cincinnati, OH, USA

Prof. Zoran Bojkovic, University of Belgrade, Serbia

Prof. Jose M. F. Moura, Carnegie Mellon University, Pittsburgh, PA, USA

Prof. Vijayakumar Bhagavatula, (Fellow of OSA and SPIE), Carnegie Mellon

University, Pittsburgh, PA, USA

Prof. Liang-Gee Chen, National Taiwan University, Taiwan

Prof. Ahmed H. Tewfik, University of Minnesota, USA

Prof. Jenq-Neng, Hwang University of WA, Seattle, USA

Prof. Amir Hussain, University of Stirling, Stirling, UK

Prof. Gergely V. Zaruba, The University of Texas at Arlington, USA

Prof. Mohammed Ghanbari, University of Essex, UK

Prof. C.-C. Jay Kuo, University of Southern California, USA

Prof. Amar Mukherjee, University of Central Florida, USA

Prof. Athanassios Manikas, Imperial College, University of London, UK

Prof. Dengsheng Zhang, Monash University, Australia

Prof. Xingquan Zhu, University of Vermont, VT, USA

Prof. Satnam Dlay, University of Newcastle upon Tyne, UK

Prof. W. L. Woo, University of Newcastle upon Tyne, UK

Prof. Klimis Ntalianis, Technological Educational Institute of Athens, Greece

Topics:

Filter design and structures Fast algorithms Adaptive filters Nonlinear Signals and Systems Multirate filtering and filter banks Signal reconstruction Time-frequency analysis Spectral estimation Higher order spectrum analysis Parameter estimation Detection Array signal processing Statistical signal analysis Signal and system modeling Cyclostationary signal analysis Speech production and perception Speech analysis Speech synthesis Speech coding Speech recognition Speech enhancement and noise reduction Active noise control Active noise reduction Echo cancellation Psychoacoustics Broadband audio coding Signal processing for music Binaural systems Room acoustics Digital transforms HDTV Multidimensional systems Machine vision Image coding Image motion / sequence / video Computed imaging Geophysical and seismic processing Image analysis and segmentation Image filtering, restoration and enhancement Image representation and modeling Pattern recognition Neural networks Fuzzy Systems Evolutionary computation Expert systems Multisensor Data Fusion Architectures and VLSI hardware Programmable signal processors Algorithms and applications mappings Design methology and CAD tools Languages and real time software Real time system estimation Optimization problems in signal processing Radar Sonar Biomedical processing Geophysical signal processing Underwater signal processing Remote sensing Robotics Astronomy Classification Crime on the Web Security. Publicity. Privacy. Reputation Frauds in Business Reputation Satellite signals processing Measure and Instrumentation

Articles:

A Novel Algorithm for 2D-IIR Filters Synthesis via 2D-FIR Filters Model Reduction

Authors: Amel Baha Houda Adamou-Mitiche, Lahcène Mitiche

FPGA Implementation of 1D and 2D DWT Architecture using Modified Lifting Scheme

Authors: M. Nagabushanam, S. Ramachandran, P. Kumar

Wavelet LPC With Neural Network for Speaker Identification System

Authors: Khaled Dagroug, Ali Morfeg, Mohammad Ajour, Abdulhameed Alkhateeb

A Comprehensive Study on Wavelet Based Shrinkage Methods for Denoising Natural Images

Authors: S. Sutha, E. Jebamalar Leavline, D. Asir Antony Gnana Singh

Analysis of Global Exponential Stability of Fuzzy BAM Neural Networks with Delays

Authors: Huayi Yin, Qianhong Zhang, Lihui Yang

Language and Text-Independent Speaker Identification System Using GMM

Authors: S. Selva Nidhyananthan, R. Shantha Selva Kumari

Chaotic Image Encryption via Convex Sinusoidal Map

Authors: F. Abu-Amara, I. Abdel-Qader

MPEG Video Deployment in Interactive Multimedia Systems: HEVC vs. AVC Codec Performance Study

Authors: Dragorad Milovanovic, Zoran Bojkovic

Multiple Fault Detection in Typical Automobile Engines: A Soft Computing Approach

Authors: S. N. Dandarea, S. V . Dudulb

NMF based Dictionary Learning for Automatic Transcription of Polyphonic Piano Music

Authors: Giovanni Costantini, Massimiliano Todisco, Renzo Perfetti

Ear Recognition System using Radon Transform and Neural Network

Authors: C. Murukesh, K. Thanushkodi

Decorrelation of Multispectral Images, Based on Hierarchical Adaptive PCA

Authors: Roumen Kountchev, Roumiana Kountcheva

A Novel Method of Walsh-Hadamard Code Generation using Reconfigurable Lattice filter and its application in DS-CDMA System

Authors: G. Suchitra, M. L. Valarmathi

Comparison and Analysis of GNSS Signal Tracking Performance based on Kalman Filter and Traditional

Loop

Authors: Xingli Sun, Honglei Qin, Jingyi Niu

FPGA Implementation of 3GPP-LTE Physical Downlink Control Channel Using Diversity Techniques

Authors: S. Syed Ameer Abbas, S. J. Thiruvengadam

Adaptive Approach Based on Curve Fitting and Interpolation for Boundary Effects Reduction

Authors: Hang Su, Jingsong Li

Efficient Compression of CT Images with Modified Branched Inverse Pyramidal Decomposition

Authors: Roumen Kountchev, Roumiana Kountcheva

Predator Prey Optimization Method For The Design Of IIR Filter

Authors: Balraj Singh, J. S. Dhillon, Y. S. Brar

Beamformings for Spectrum Sharing in Cognitive Radio Networks

Authors: Raungrong Suleesathira, Satit Puranachikeeree

<u>Local Pixel Class Pattern Based on Fuzzy Reasoning for Feature Description</u>

Authors: Weiren Shi, Shuhan Chen, Li Fang

A High Performance Pipelined Discrete Hilbert Transform Processor

Authors: Wang Xu, Zhang Yan, Ding Shunying

Neural based Domain and Range Pool Partitioning using Fractal Coding for Nearly Lossless Medical Image

Compression

Authors: S. Bhavani, K.Thanushkodi

Research on LASCA and Denoising of Blood Vessel images of Small Animals

Authors: Cong Wu, Nengyun Feng, Koichi Harada, Pengcheng Li