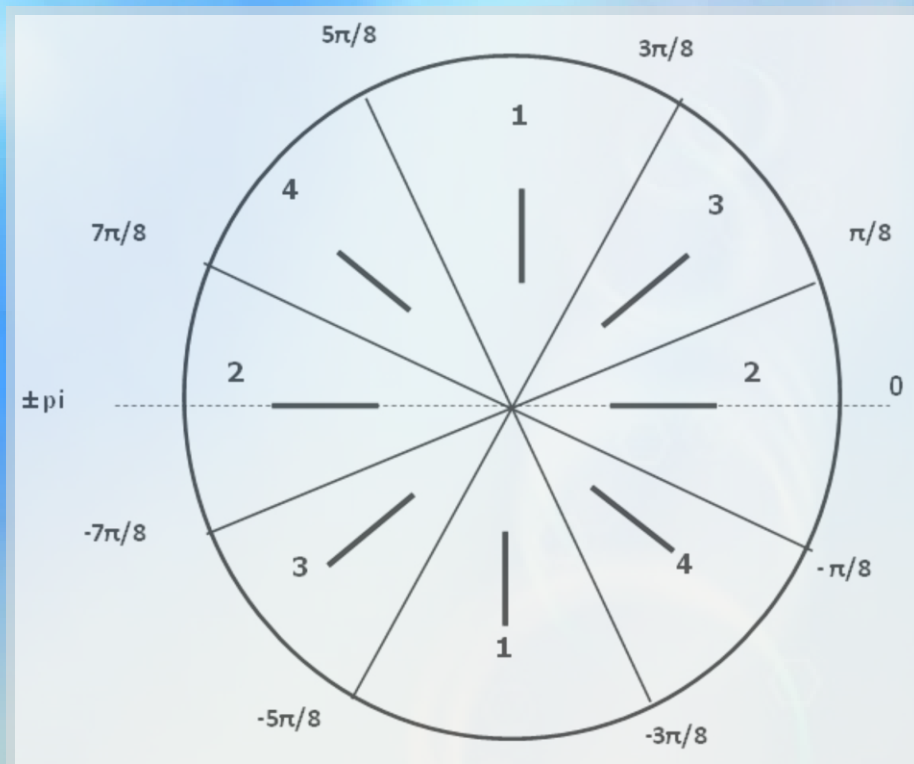


# Journal of Intelligent Learning Systems and Applications



ISSN: 2150-8402



# Journal Editorial Board

ISSN Print: 2150-8402 ISSN Online: 2150-8410

<http://www.scirp.org/journal/jilsa>

---

## Editors-in-Chief

Dr. Steve S. H. Ling

University of Technology Sydney, Australia

Prof. Xin Xu

National University of Defense Technology, China

## Editorial Advisory Board

Prof. Hengda Cheng

Utah State University, USA

Dr. Haibo He

University of Rhode Island, USA

Prof. Rob Law

Hong Kong Polytechnic University, China

Prof. Mengchi Liu

Carleton University, Canada

Prof. Yi Pan

Georgia State University, USA

Prof. Simon X. Yang

University of Guelph, Canada

Prof. Shi Ying

Wuhan University, China

## Editorial Board (According to Alphabet)

Dr. Vitoantonio Bevilacqua

Polytechnic of Bari, Italy

Dr. Kit Yan Chan

Curtin University, Australia

Dr. Peng Chen

Chinese Academy of Sciences, China

Prof. David Greenhalgh

University of Strathclyde, UK

Dr. Ying Guo

Commonwealth Scientific and Industrial Research Organization, Australia

Prof. Kao-Shing Hwang

National Sun Yat-sen University, Chinese Taipei

Dr. Frank Jiang

University of New South Wales, Australia

Dr. Michail G. Lagoudakis

Technical University of Crete, Greece

Dr. Hak-Keung Lam

King's College London, UK

Prof. Shutao Li

Hunan University, China

Prof. Yiguang Liu

Sichuan University, China

Prof. Kin Huat Low

Nanyang Technological University, Singapore

Dr. Vincenzo Pacelli

University of Foggia, Italy

Prof. George Panayiotakis

University of Patras, Greece

Dr. Jan Peters

Max Planck Institute, Germany

Dr. Steven Weidong Su

University of Technology Sydney, Australia

Prof. Theodore B. Trafalis

The University of Oklahoma, USA

Prof. Evangelos Triantaphyllou

Louisiana State University, USA

Dr. Jue Wang

Chinese Academy of Sciences, China

Prof. Xuesong Wang

China University of Mining and Technology, China

Dr. Yudong Zhang

Columbia University, USA

Dr. Wei Zhong

University of South Carolina Upstate, USA

Prof. Dingxuan Zhou

City University of Hong Kong, China

Prof. Antanas Zilinskas

Institute of Mathematics and Informatics, Lithuania

## Managing Executive Editor

Dr. Tao Ban

National Institute of Information and Communications Technology, Japan

## TABLE OF CONTENTS

Volume 4 Number 4

November 2012

<b>Comparison between Neural Network and Adaptive Neuro-Fuzzy Inference System for Forecasting Chaotic Traffic Volumes</b>	
J.-P. Yeh, Y.-C. Chang.....	247
<b>Genetic Algorithms for Perceptual Codes Extraction</b>	
M. Ltaief, S. Njah, H. Bezine, A. M. Alimi.....	255
<b>Face Representation Using Combined Method of Gabor Filters, Wavelet Transformation and DCV and Recognition Using RBF</b>	
T. Kathirvalavakumar, J. Jebakumari Beulah Vasanth.....	266
<b>Subgraph Matching Using Graph Neural Network</b>	
R. B. GnanaJothi, S. M. MeenaRani.....	274
<b>Optimization of Intraday Trading Strategy Based on ACD Rules and Pivot Point System in Chinese Market</b>	
X. Tian, C. Quan, J. Zhang , H. J. Cai.....	279
<b>Weighted Time-Variant Slide Fuzzy Time-Series Models for Short-Term Load Forecasting</b>	
X. J. Liu, E. J. Bai, J. A. Fang.....	285
<b>Interval Type-2 Fuzzy Logic Control of Mobile Robots</b>	
N. Baklouti, R. John, A. M. Alimi.....	291
<b>Document Clustering with Evolutionary Systems through Straight-Line Programs “slp”</b>	
J. L. C. Sequera, J. R. F. del Castillo Diez, L. G. Sotos.....	303
<b>Behind HumanBoost: Analysis of Users’ Trust Decision Patterns for Identifying Fraudulent Websites</b>	
D. Miyamoto, H. Hazeyama, Y. Kadobayashi, T. Takahashi.....	319

---

The figure on the front cover is from the article published in Journal of Intelligent Learning Systems and Applications, 2012, Vol. 4, No. 4, pp. 255-365 by Mahmoud Ltaief, Sourour Njah, Hala Bezine and Adel M. Alimi.

# **Journal of Intelligent Learning Systems and Applications (JILSA)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Journal of Intelligent Learning Systems and Applications* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **COPYRIGHT**

Copyright©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### **PRODUCTION INFORMATION**

For manuscripts that have been accepted for publication, please contact:

E-mail: [jilsa@scirp.org](mailto:jilsa@scirp.org)

**Call for Papers**



# Journal of Intelligent Learning Systems and Applications

ISSN Print: 2150-8402 ISSN Online: 2150-8410

[www.scirp.org/journal/jilsa](http://www.scirp.org/journal/jilsa)

The *Journal of Intelligent Learning Systems and Applications (JILSA)* is a peer reviewed international journal with a key objective to provide the academic and industrial community a medium for presenting original cutting-edge research related to intelligent learning systems and their applications. JILSA invites authors to submit their original and unpublished work that communicates current research on intelligent learning systems both in the theoretical and methodological aspects, as well as various applications in real-world applications.

Papers are invited on the topics including, but not limited to:

- Approximate Dynamic Programming
- Autonomic Computing
- Autonomous Learning Systems
- Bio-Inspired Learning Method
- Clustering
- Cyber-Physical Systems
- Evolutionary Computation
- Filter Bank
- Fuzzy and Rough Set
- General Theory on Intelligent Learning Systems
- Intelligent Applications
- Learning Control Systems
- Multi-Agent Learning
- Multiple Models Strategy
- Neural Networks
- Pattern Recognition Based on Learning Techniques
- Predictive Control
- Recommendation System
- Reinforcement Learning
- Robotics
- Smart Grid Techniques and Applications
- Social Network Analysis
- Statistical Learning Theory
- Supervised Learning
- Time-Frequency Representation
- Unsupervised Learning
- User Behavior Modelling
- Wavelet Theory

## Editors-in-Chief

Dr. Steve S. H. Ling

Prof. Xin Xu

University of Technology Sydney, Australia

National University of Defense Technology, China

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-Mail

<http://www.scirp.org/journal/jilsa>

E-Mail: [jilsa@scirp.org](mailto:jilsa@scirp.org)