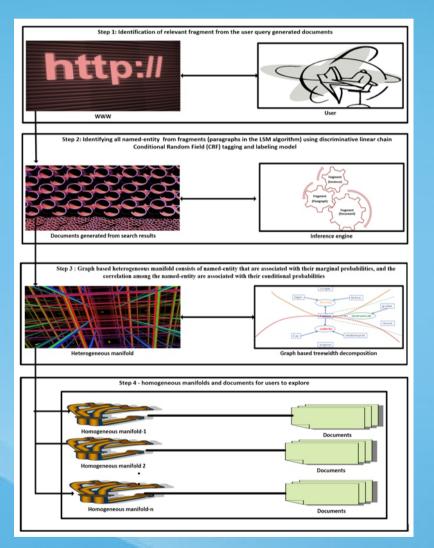


# Journal of Data Analysis and Information Processing





www.scirp.org/journal/jdaip

# Journal Editorial Board

ISSN: 2327-7211 (Print) ISSN: 2327-7203 (Online) http://www.scirp.org/journal/jdaip

# Editor-in-Chief

Prof. Feng Shi

Huazhong Agricultural University, China

# **Editorial Board**

Dr. Haiyan Bai	University of Central Florida, USA
Prof. Shuoben Bi	Nanjing University of Information Science and Technology, China
Prof. Halil Ceylan	Iowa State University, USA
Prof. Gang-Len Chang	The University of Maryland, USA
Dr. Simin Ghavifekr	University of Malaya, Malaysia
Prof. Abdolreza Hatamlou	Islamic Azad University, Iran
Dr. Caimei Lu	Drexel University, USA
Dr. Loc Nguyen	Sunflower Soft Company, Vietnam
Dr. Jeremy R. Porter	City University of New York, USA
Dr. Wan Tang	University of Rochester, USA
Dr. Chunyan Wang	Pinterest Inc., USA
Prof. Fu-Kwun Wang	National Taiwan University of Science and Technology, Chinese Taipei
Dr. Jie Yang	Stony Brook University, USA
Dr. Song Yang	University of Arkansas, USA



# **Table of Contents**

Volume 3 Number 4	November 2015	
Conditions of Non-Unique Identifiers in Record Linkage Using Japanese Cohort Dataset		
M. Nakai, K. Nishimura, Y. Miyamoto103		
Probabilistic, Statistical and Algorithmic Aspects of the Similarity of Texts and Application to Gospels Comparison		
S. Dembele, G. S. Lo		
A Super-High-Efficiency Algorithm for the Calculation of the Correlation Integral		
Z. P. Gong		
Identifying Semantic in High-Dimensional Web Data Using Latent Semantic Manifold		
A. Kumar, S. Maskara, IJ. Chiang		
Dimensionality Reduction of Distributed Vector Word Representations and Emoticon Stemming for Sentiment Analysis		
B. Dickinson, M. Ganger, W. Hu		
A Proposed Method for Choice of Sample Size without Pre-Defining Error		
L. Nguyen, H. Ho		
Detection of Stego-Images in Communication among the Terrorist Boko-Haram Sect in Nigeria		
O. Kolade, A. A. Olayinka, F. Sunday, O. Adesoji, I. F. Olubusola168		
Role of Feature Selection on Leaf Image Classification		
A. Kumar, V. Patidar, D. Khazanchi, P. Saini175		

The figure on the front cover is from the article published in Journal of Data Analysis and Information Processing, 2015, Vol. 3, No. 4, pp. 136-152 by Ajit Kumar, Sanjeev Maskara and I-Jen Chiang.

# Journal of Data Analysis and Information Processing (JDAIP) Journal Information

#### SUBSCRIPTIONS

The Journal of Data Analysis and Information Processing (Online at Scientific Research Publishing, <u>www.SciRP.org</u>) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$39 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

#### SERVICES

Advertisements Advertisement Sales Department, E-mail: <u>service@scirp.org</u>

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: <u>sub@scirp.org</u>

#### COPYRIGHT

#### COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2015 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY). http://creativecommons.org/licenses/by/4.0/

#### **COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:**

Copyright © 2015 by author(s) and Scientific Research Publishing Inc.

#### **REUSE RIGHTS FOR INDIVIDUAL PAPERS:**

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

#### DISCLAIMER OF LIABILITY

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: jdaip@scirp.org

# 

www.scirp.org/jou

## Editor-in-Chief Prof. Feng Shi Editorial Board

Dr. Haiyan Bai Prof. Shuoben Bi Prof. Halil Ceylan Prof. Gang-Len Chang Dr. Simin Ghavifekr

## Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Application of Technology in Policy and Decision Making
- Application of Technology in Teaching and Learning Process
- Artificial Intelligence
- Artificial Neural Networks
- Big Data Analytic
- Business Intelligence
- Computational Intelligence
- Data Mining
- Data Modeling
- Deep Learning
- Digital Signal Processing
- Dimension Reducing
- Empirical Mode Decomposition
- Fourier Analysis
- Graph Mining
- Image Processing, Video Processing

- Information Hiding
- Information Retrieval
- Information Theory
- Knowledge Discovery
- Machine Learning
- Multivariate Data Analysis, Matrix Analysis
- Pattern Recognition
- Semantic Technology
- Social Network Mining
- Spatial and Temporal Data Analysis
- Statistics
- Statistics and Applied Probability
- Stochastic Process
- Stream Mining
- Time Series Analysis
- Wavelet Analysis

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the JDAIP.

## **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/jdaip Email:jdaip@scirp.org

# Journal of Data Analysis and Information Processing

ISSN 2327-7211 (Print) ISSN 2327-7203 (Online) http://www.scirp.org/journal/jdaip

Journal of Data Analysis and Information Processing (JDAIP), is an international journal dedicated to the latest advancement of data analysis and information processing methods. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of data analysis and information processing.

Huazhong Agricultural University, China

Prof. Abdolreza Hatamlou Dr. Caimei Lu Dr. Loc Nguyen Dr. Jeremy R. Porter Dr. Wan Tang Dr. Chunyan Wang Prof. Fu-Kwun Wang Dr. Jie Yang Dr. Song Yang

<u>Call for Papers</u>

## What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

# What is Open Access?

Art and Design Review

Advances in

dvances in Biological bemistry Entomolog

Applied Mathematics

Engineering

UNIT O

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



Soft

ĥh

Website: http://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org