

ISSN: 2327-7211 Volume 12, Number 4, November 2024



Journal of Data Analysis and Information Processing



ISSN: 2327-7211



<https://www.scirp.org/journal/jdaip>

Journal Editorial Board

ISSN: 2327-7211 (Print) ISSN: 2327-7203 (Online)

<https://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
Prof. Xiaoli Li Beijing Normal University, China
Dr. Caimei Lu Drexel University, USA
Prof. Mehmet Mendes Canakkale Onsekiz Mart University, Türkiye
Dr. Loc Nguyen Sunflower Soft Company, Vietnam
Prof. Rhonda K. Roby University of North Texas, USA
Dr. Yilun Shang Department of Computer and Information Sciences, Northumbria University, UK
Prof. 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
Prof. Jie Yang Stony Brook University, USA
Dr. Ehsan Zamanzade University of Isfahan, Iran

Table of Contents

Volume 12 Number 4

November 2024

Evaluation of the Climate Prediction System CMA-CPSv3 on Performances of Precipitation and Temperature Prediction over the Tibetan Plateau	
M. J. Ni, D. Z. Danzeng, Y. Z. Ciren.....	495
AutoGluon-Based Sales Forecasting a Real-Time Predictive Analytics Solution for Business Intelligence	
F. Mahesar, A. Ishaq, M. Riaz, M. Bilal, T. Kousar, A. Jameel.....	510
Design and Implementation of Enterprise Office Automation System Based on Web Service Framework & Data Mining Techniques	
M. A. Javed, M. Alam, M. Ariful Alam, R. Islam, M. N. Ahsan	523
Optimizing Healthcare Big Data Processing with Containerized PySpark and Parallel Computing: A Study on ETL Pipeline Efficiency	
E. Soltanmohammadi, N. Hikmet	544
Predictive Analytics for Project Risk Management Using Machine Learning	
S. R. Bauskar, C. R. Madhavaram, E. P. Galla, J. R. Sunkara, H. K. Gollangi, S. K. Rajaram	566
An Analysis and Prediction of Health Insurance Costs Using Machine Learning-Based Regressor Techniques	
G. K. Patra, C. Kuraku, S. Konkimalla, V. N. Boddapati, M. Sarisa, M. S. Reddy	581
Enhancing BERTopic with Pre-Clustered Knowledge: Reducing Feature Sparsity in Short Text Topic Modeling	
Q. Wang, B. Ma	597

Journal of Data Analysis and Information Processing (JDAIP)

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

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

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2024 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 © 2024 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:

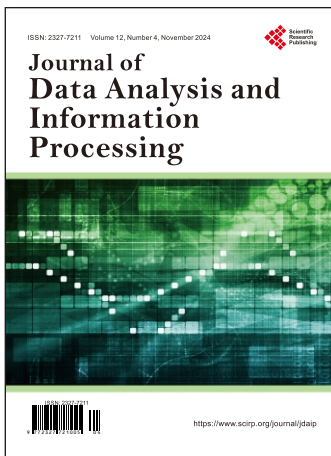
E-mail: jdaip@scirp.org

Call for Papers

Journal of Data Analysis and Information Processing

ISSN 2327-7211 (Print) ISSN 2327-7203 (Online)

<https://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.

Editor-in-Chief

Prof. Feng Shi

Huazhong Agricultural University, China

Editorial Board

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

Prof. Xiaoli Li
Dr. Caimei Lu
Prof. Mehmet Mendes
Dr. Loc Nguyen
Prof. Rhonda K. Roby
Dr. Yilun Shang

Prof. Wan Tang
Dr. Chunyan Wang
Prof. Fu-Kwun Wang
Prof. Jie Yang
Dr. Ehsan Zamanzade

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 Extraction
- 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

<https://www.scirp.org/journal/jdaip> Email: jdaip@scirp.org

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?

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



**Scientific
Research
Publishing**

Website: <https://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org