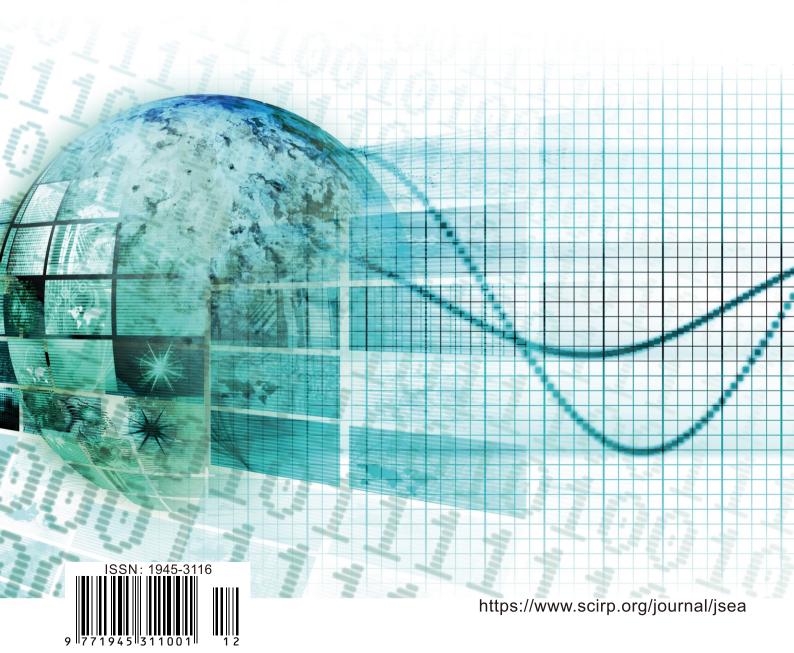
#### ISSN: 1945-3116



# Journal of Software Engineering and Applications



## **Journal Editorial Board**

ISSN 1945-3116 (print) ISSN 1945-3124 (online)

https://www.scirp.org/journal/jsea

#### **Editor-in-Chief**

Prof. Yashwant K. Malaiya Colorado State University, USA

#### **Editorial Board**

Prof. Omar Abu Arqub Al-Balqa Applied University, Jordan

Dr. Nicoletta Adamo-Villani Purdue University, USA

Prof. Kuang-Hua Chang
The University of Oklahoma, USA
Dr. Calvin Yu-Chian Chen
China Medical University, China

**Dr. Kim-Kwang Raymond Choo** University of South Australia, Australia

Prof. Steven A. Demurjian The University of Connecticut, USA

**Dr. Phan H. Giang** George Mason University, USA

**Dr. Zonghua Gu**Zhejiang University, China

**Dr. Nabil Hameurlain** University of Pau, France

Dr. Wolfgang Herzner Austrian Institute of Technology, Austria

**Dr. Jacky Wai Keung** City University of Hong Kong, China

**Dr. Mitsuhiro Kimura** Hosei University, Japan

**Prof. Chang-Hwan Lee** Dongguk University, South Korea

**Prof. Anthony F. Norcio** University of Maryland, USA

Dr. Indrajit Saha National Institute of Technical Teachers' Training &

Research, Kolkata, India

**Prof. Janche Sang**Cleveland State University, USA

**Prof. Chintakindi Sanjay** GITAM University, India

**Prof. Midthe V. Srinath** Mahendra Engineering College, India

**Dr. Eliot Winer** The Iowa State University, USA

**Dr. Yongfeng Yin** School of Reliability and System Engineering, Beihang

University (BUAA), China

Prof. Xin Yuan Florida State University, USA



Volume 12 Number 12

ISSN Online: 1945-3124 ISSN Print: 1945-3116

December 2019

### **Table of Contents**

A Study on Prediction of Weld Geometry in Laser Overlap Welding of Low Carbon Galvanized Steel Using ANN-Based Models	
K. Oussaid, A. El Ouafi	.509
Hybrid Support Vector Regression with Parallel Co-Evolution Algorithm Based on GA and PSO for Forecasting Monthly Rainfall	
J. S. Wu, Y. S. Xie	.524
Optimal Operation Strategies for a Large Multi-Chiller System Based on Cooling Load Forecast	
Y. Y. Lu, J. H. Chen, Y. B. Mo	.540

# Journal of Software Engineering and Applications (JSEA) Journal Information

#### SUBSCRIPTIONS

The *Journal of Software Engineering and Applications* (Online at Scientific Research Publishing, <a href="https://www.scirp.org/">https://www.scirp.org/</a>) is published monthly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$89 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

#### **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 © 2020 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 © 2020 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.

#### SPONSOR:

International School of Software, Wuhan University (iss.whu.edu.cn).

#### PRODUCTION INFORMATION

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

E-mail: jsea@scirp.org

# Call for Papers



# Journal of Software Engineering and Applications (JSEA)

ISSN 1945-3116 (print) ISSN 1945-3124 (online) https://www.scirp.org/journal/jsea

ISEA is a professional journal in the field of software engineering and application. The goal of this journal is to provide an international platform for engineers and academicians all over the world to promote, share, and discuss various new issues and development in the field of software engineering. It is an archival publication to disseminate the results of fundamental and applied research, especially those relevant to software engineering. This journal aims to encourage deeper understanding and greater effectiveness in the theory analysis and engineering application relevant to software engineering fields.

#### 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:

Automated Software Design and Synthesis
Automated Software Specification
Component-Based Software Engineering
Computer-Supported Cooperative Work
Formal Methods
Knowledge Acquisition
Object-Oriented Technology
Patterns and Frameworks
Process and Workflow Management
Program Understanding Issues
Programming Languages and Software Engineering
Reflection and Metadata Approaches
Reliability and Fault Tolerance

Requirements Engineering
Reverse Engineering
Software Architecture
Software Design Methods
Software Domain Modeling and Meta-Modeling
Software Engineering Decision Support
Software Engineering Education
Software Maintenance and Evolution
Software Process Modeling
Software Quality
Software Reuse
Software Testing
Tutoring, Help, Documentation Systems

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 JSEA.

#### **Notes for Prospective Authors**

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

E-mail: jsea@scirp.org

#### Website and E-mail

https://www.scirp.org/journal/jsea

#### 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





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