Journal Editorial Board

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

Editor in Chief

Prof. Yashwant K. Malaiya Colorado State University, USA

Editorial Board (According to Alphabet)

Prof. M. G. J. van den Brand Eindhoven University of Technology, Netherlands
Prof. Kuang-Hua Chang The University of Oklahoma, USA
Dr. Kim-Kwang Raymond Choo University of South Australia, Australia
Prof. Steven A. Demurjian The University of Connecticut, 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 The Hong Kong Polytechnic University, Hong Kong (China)
Dr. Ridha Khedri McMaster University, Canada
Prof. Chang-Hwan Lee Dongguk University, Korea (South)
Prof. Anthony F. Norcio University of Maryland, USA
Prof. Midhe V. Srinath Mahendra Engineering College, India
Dr. Eliot Winer The Iowa State University, USA
Prof. Xin Yuan Florida State University, USA

Editorial Assistant

Alline Xiao Scientific Research Publishing, USA Email: jsea@scirp.org
# TABLE OF CONTENTS

**Volume 5    Number 2    February 2012**

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application of a Computational Tool to Study the Influence of Worn Wheels on Railway Vehicle Dynamics</td>
<td>J. Pombo</td>
<td>51</td>
</tr>
<tr>
<td>Laboratory Driven, Lean-to-Adaptive Prototyping in Parallel for Web Software Project Identification and Application Development in Health Science Research</td>
<td>Z. Dwight, A. Barnes</td>
<td>62</td>
</tr>
<tr>
<td>Design of a Performance Measurement Framework for Cloud Computing</td>
<td>L. Bautista, A. Abran, A. April</td>
<td>69</td>
</tr>
<tr>
<td>Lightweight Approach to Connect Business Rules with Aspects</td>
<td>S. Casas, C. Marcos, C. Fuentes, J. Enriquez, G. Vidal</td>
<td>76</td>
</tr>
<tr>
<td>Searching of Images Based on Content Using Blobs</td>
<td>Y. Karimilivari, L. Vasebi, S. Vasebi</td>
<td>85</td>
</tr>
<tr>
<td>A Workflow-Based Failure Recovery in Web Services Composition</td>
<td>O. Bushehrian, S. Zare, N. K. Rad</td>
<td>89</td>
</tr>
<tr>
<td>Improving Recommender Systems in E-Commerce Using Similar Goods</td>
<td>M. Khalaj, K. Mansouri, S. J. Mirabedini</td>
<td>96</td>
</tr>
<tr>
<td>Combining Public Key Encryption with Schnorr Digital Signature</td>
<td>L. Savu</td>
<td>102</td>
</tr>
</tbody>
</table>

The figure on the front cover is from the article published in Journal of Software Engineering and Applications, 2012, Vol. 5, No. 2, pp. 89-95 by Omid Bushehrian, Salman Zare and Navid Keihani Rad.
Journal of Software Engineering and Applications (JSEA)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $59 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)
E-mail: 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 assumes 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: jsea@scirp.org
Call for Papers

Journal of Software Engineering and Applications (JSEA)

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

JSEA publishes four categories of original technical articles: papers, communications, reviews, and discussions. Papers are well-documented final reports of research projects. Communications are shorter and contain noteworthy items of technical interest or ideas required rapid publication. Reviews are synoptic papers on a subject of general interest, with ample literature references, and written for readers with widely varying background. Discussions on published reports, with author rebuttals, form the fourth category of JSEA publications.

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.

Website and E-Mail

http://www.scirp.org/journal/jsea
E-Mail: jsea@scirp.org