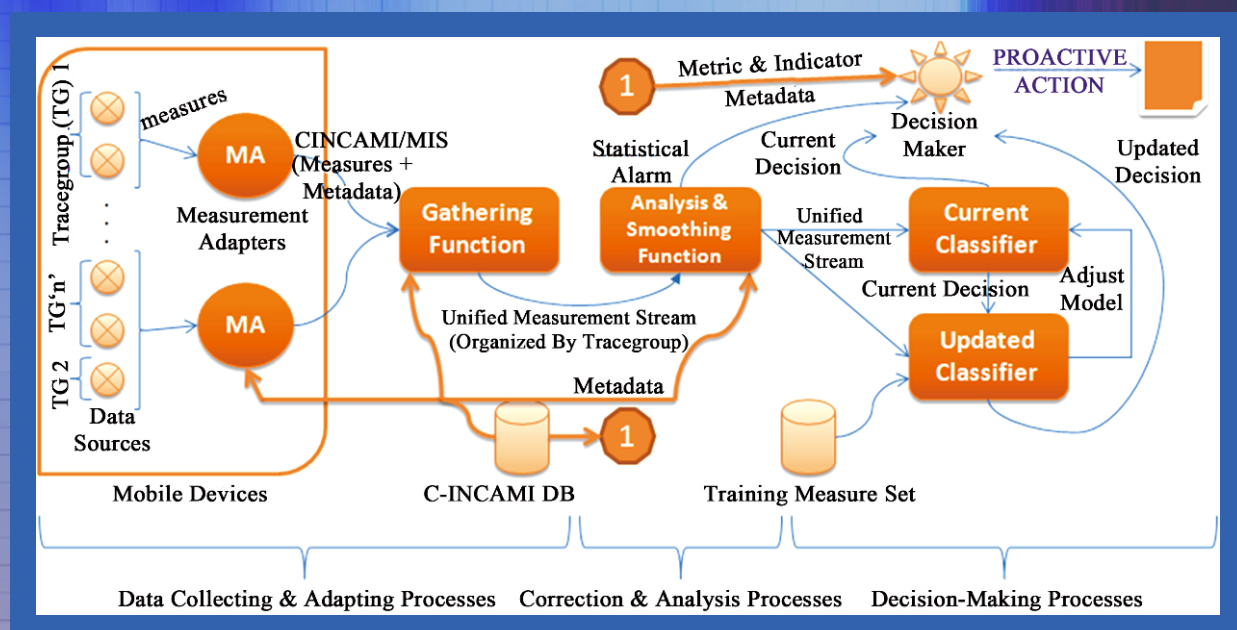




JOURNAL OF SOFTWARE ENGINEERING AND APPLICATIONS



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

Executive Editor in Chief

Prof. Yanxiang He

Wuhan University, China

Editorial Advisory Board

Prof. Hengda Cheng

Utah State University, USA

Dr. Mengchi Liu

Carleton University, Canada

Prof. Yi Pan

Georgia State University, USA

Editorial Board (According to Alphabet)

Dr. Ognjen Arandjelović

University of Cambridge, UK

Dr. Cinzia Bernardeschi

University of Pisa, Italy

Prof. Stéphane Bordas

Cardiff University, UK

Prof. M.G.J. van den Brand

Eindhoven University of Technology, Netherlands

Prof. Guoliang Chen

University of Science and Technology of China, China

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

Prof. James Kwangjune Hahn

The George Washington University, USA

Dr. Nabil Hameurlain

University of Pau, France

Prof. Keqing He

Wuhan University, China

Dr. Wolfgang Herzner

Austrian Institute of Technology, Austria

Dr. Vassilios (Bill) Karakostas

City University, UK

Prof. Chang-Hwan Lee

Dongguk University, Korea (South)

Dr. Weiping Li

Peking University, China

Prof. Kasi Periyasamy

University of Wisconsin-La Crosse, USA

Prof. Miodrag Potkonjak

University of California, USA

Dr. Ruben Prieto-Diaz

James Madison University, Spain

Prof. Michael Ryan

Dublin City University, Ireland

Prof. Midthe V. Srinath

Mahendra Engineering College, India

Dr. Ladan Tahvildari

University of Waterloo, Canada

Prof. Shi Ying

Wuhan University, China

Prof. Xin Yuan

Florida State University, USA

Dr. Mao Zheng

University of Wisconsin-La Crosse, USA

Editorial Assistant

Alline Xiao

Scientific Research Publishing, USA Email: jsea@scirp.org

TABLE OF CONTENTS

Volume 4 Number 12

December 2011

Strategy for Data Stream Processing Based on Measurement Metadata: An Outpatient Monitoring Scenario

M. Diván, L. Olsina, S. Gordillo.....653

Developing Systems by Using Object Oriented Database Practical Study on ISO 9001:2000 System

K. Khoualdi, T. Alghamdi.....666

Modelling and Wavelet-Based Identification of 3-DOF Vehicle Suspension System

K. Nouri, H. Loussifi, N. Benhadj Braiek.....672

Face Detection and Localization in Color Images: An Efficient Neural Approach

S. Sadek, A. Al-Hamadi, B. Michaelis, U. Sayed.....682

Automated Testing Framework for ODBC Driver

D. Ye.....688

Agile Practices: An Assessment of Perception of Value of Professionals on the Quality Criteria in Performance of Projects

M. de A. Santos, P. H. de S. Bermejo, M. S. de Oliveira, A. O. Tonelli.....700

Power-Law Distributions in Hard Drive Behavior

D. Strzałka, P. Szurlej.....710

A Knowledge Management Framework in Software Requirements Engineering Based on the SECI Model

A. Chikh.....718

The figure on the front cover is from the article published in *Journal of Software Engineering and Applications*, 2011, Vol. 4, No. 12, pp. 653-665 by Mario Diván, Luis Olsina and Silvia Gordillo.

Journal of Software Engineering and Applications (JSEA)

Journal Information

SUBSCRIPTIONS

The *Journal of Software Engineering and Applications* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

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)

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

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2011 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.

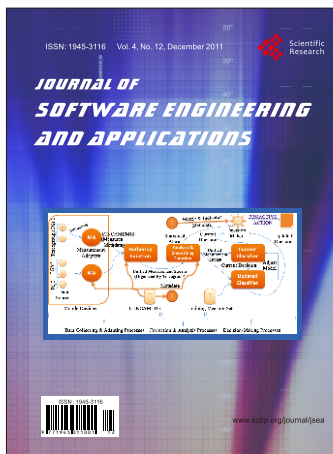
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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: jsea@scirp.org



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