

Volume 1 • Issue 4 • November / December 2010

INTERNATIONAL JOURNAL OF

# DATA ENGINEERING (IJDE)

ISSN : 2180-1274

Publication Frequency: 6 Issues / Year



CSC PUBLISHERS  
<http://www.cscjournals.org>

# **INTERNATIONAL JOURNAL OF DATA ENGINEERING (IJDE)**

**VOLUME 1, ISSUE 4, 2010**

**EDITED BY  
DR. NABEEL TAHIR**

ISSN (Online): 2180-1274

International Journal of Data Engineering is published both in traditional paper form and in Internet. This journal is published at the website <http://www.cscjournals.org>, maintained by Computer Science Journals (CSC Journals), Malaysia.

IJDE Journal is a part of CSC Publishers

Computer Science Journals

<http://www.cscjournals.org>

## **INTERNATIONAL JOURNAL OF DATA ENGINEERING (IJDE)**

Book: Volume 1, Issue 4, November / December 2010

Publishing Date: 31-12-2010

ISSN (Online): 2180-1274

This work is subjected to copyright. All rights are reserved whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in any other way, and storage in data banks. Duplication of this publication or parts thereof is permitted only under the provision of the copyright law 1965, in its current version, and permission of use must always be obtained from CSC Publishers.

IJDE Journal is a part of CSC Publishers

<http://www.cscjournals.org>

© IJDE Journal

Published in Malaysia

Typesetting: Camera-ready by author, data conversion by CSC Publishing Services – CSC Journals, Malaysia

**CSC Publishers, 2010**

## EDITORIAL PREFACE

This is *Fourth* Issue of Volume *One* of the International Journal of Data Engineering (IJDE). IJDE is an International refereed journal for publication of current research in Data Engineering technologies. IJDE publishes research papers dealing primarily with the technological aspects of Data Engineering in new and emerging technologies. Publications of IJDE are beneficial for researchers, academics, scholars, advanced students, practitioners, and those seeking an update on current experience, state of the art research theories and future prospects in relation to computer science in general but specific to computer security studies. Some important topics cover by IJDE is Annotation and Data Curation, Data Engineering, Data Mining and Knowledge Discovery, Query Processing in Databases and Semantic Web etc.

The initial efforts helped to shape the editorial policy and to sharpen the focus of the journal. Starting with Volume 2, 2011, IJDE will be appearing with more focused issues. Besides normal publications, IJDE intend to organized special issues on more focused topics. Each special issue will have a designated editor (editors) – either member of the editorial board or another recognized specialist in the respective field.

This journal publishes new dissertations and state of the art research to target its readership that not only includes researchers, industrialists and scientist but also advanced students and practitioners. The aim of IJDE is to publish research which is not only technically proficient, but contains innovation or information for our international readers. In order to position IJDE as one of the top International journal in Data Engineering, a group of highly valuable and senior International scholars are serving its Editorial Board who ensures that each issue must publish qualitative research articles from International research communities relevant to Data Engineering fields.

IJDE editors understand that how much it is important for authors and researchers to have their work published with a minimum delay after submission of their papers. They also strongly believe that the direct communication between the editors and authors are important for the welfare, quality and wellbeing of the Journal and its readers. Therefore, all activities from paper submission to paper publication are controlled through electronic systems that include electronic submission, editorial panel and review system that ensures rapid decision with least delays in the publication processes.

To build its international reputation, we are disseminating the publication information through Google Books, Google Scholar, Directory of Open Access Journals (DOAJ), Open J Gate, ScientificCommons, Docstoc and many more. Our International Editors are working on establishing ISI listing and a good impact factor for IJDE. We would like to remind you that the success of our journal depends directly on the number of quality articles submitted for review. Accordingly, we would like to request your participation by submitting quality manuscripts for review and encouraging your colleagues to submit quality manuscripts for review. One of the great benefits we can provide to our prospective authors is the mentoring nature of our review process. IJDE provides authors with high quality, helpful reviews that are shaped to assist authors in improving their manuscripts..

### **Editorial Board Members**

International Journal of Data Engineering (IJDE)

## EDITORIAL BOARD

### EDITORIAL BOARD MEMBERS (EBMs)

---

**Dr. Zaher Al Aghbari**

University of Sharjah  
United Arab Emirates

**Assistant Professor. Mohamed Mokbel**

University of Minnesota  
United States of America

**Associate Professor Ibrahim Kamel**

University of Sharjah  
United Arab Emirates

**Dr. Mohamed H. Ali**

StreamInsight Group at Microsoft  
United States of America

**Dr. Xiaopeng Xiong**

Chongqing A-Media Communication Tech Co. LTD  
China

**Assistant Professor. Yasin N. Silva**

Arizona State University  
United States of America

**Associate Professor Mourad Ouzzani**

Purdue University  
United States of America

**Associate Professor Ihab F. Ilyas**

University of Waterloo  
Canada

**Dr. Mohamed Y. Eltabakh**

IBM Almaden Research Center  
United States of America

**Professor Hakan Ferhatosmanoglu**

Ohio State University  
Turkey

**Assistant Professor. Babu Shivnath**

Duke University  
United States of America

**Dr. Andrey Balmin**

IBM Almaden Research Center  
United States of America

**Dr. Rishi R. Sinha**

Microsoft Corporation  
United States of America

**Dr. Qiong Luo**

Hong Kong University of Science and Technology  
China

**Dr. Thanaa M. Ghanem**

University of St. Thomas  
United States of America

**Dr. Ravi Ramamurthy**

Microsoft Research  
United States of America

**Dr. David DeHaan**

Sybase  
Canada

**Dr. Theodore Dalamagas**

IMIS, Athens  
Greece

**Dr Moustafa Hammad**

Google, Inc.  
United States of America

## INSTRUCTIONS TO CONTRIBUTORS

Data Engineering refers to the use of data engineering techniques and methodologies in the design, development and assessment of computer systems for different computing platforms and application environments. With the proliferation of the different forms of data and its rich semantics, the need for sophisticated techniques has resulted an in-depth content processing, engineering analysis, indexing, learning, mining, searching, management, and retrieval of data.

International Journal of Data Engineering (IJDE) is a peer reviewed scientific journal for sharing and exchanging research and results to problems encountered in today's data engineering societies. IJDE especially encourage submissions that make efforts (1) to expose practitioners to the most recent research results, tools, and practices in data engineering topics; (2) to raise awareness in the research community of the data engineering problems that arise in practice; (3) to promote the exchange of data & information engineering technologies and experiences among researchers and practitioners; and (4) to identify new issues and directions for future research and development in the data & information engineering fields. IJDE is a peer review journal that targets researchers and practitioners working on data engineering and data management.

To build its International reputation, we are disseminating the publication information through Google Books, Google Scholar, Directory of Open Access Journals (DOAJ), Open J Gate, ScientificCommons, Docstoc and many more. Our International Editors are working on establishing ISI listing and a good impact factor for IJDE.

The initial efforts helped to shape the editorial policy and to sharpen the focus of the journal. Starting with Volume 2, 2011, IJDE will be appearing with more focused issues. Besides normal publications, IJDE intend to organized special issues on more focused topics. Each special issue will have a designated editor (editors) – either member of the editorial board or another recognized specialist in the respective field.

We are open to contributions, proposals for any topic as well as for editors and reviewers. We understand that it is through the effort of volunteers that CSC Journals continues to grow and flourish.

### IJDE LIST OF TOPICS

The realm of International Journal of Data Engineering (IJDE) extends, but not limited, to the following:

- Approximation and Uncertainty in Databases and Pro
- Data Engineering
- Data Engineering for Ubiquitous Mobile Distributed
- Data Integration
- Data Ontologies
- Data Query Optimization in Databases
- Data Warehousing
- Database User Interfaces and Information Visualiza
- Metadata Management and Semantic Interoperability
- Personalized Databases
- Scientific Biomedical and Other Advanced
- Autonomic Databases
- Data Engineering Algorithms
- Data Engineering Models
- Data Mining and Knowledge Discovery
- Data Privacy and Security
- Data Streams and Sensor Networks
- Database Tuning
- Knowledge Technologies
- OLAP and Data Grids
- Query Processing in Databases
- Semantic Web

- Database
- Social Information Management
- Spatial Temporal

## **CALL FOR PAPERS**

---

**Volume: 2 - Issue: 1**

**i. Paper Submission:** January 31, 2011

**ii. Author Notification:** February 28, 2011

**iii. Issue Publication:** March / April 2011



## **CONTACT INFORMATION**

### **Computer Science Journals Sdn Bhd**

B-5-8 Plaza Mont Kiara, Mont Kiara  
50480, Kuala Lumpur, MALAYSIA

Phone: 006 03 6204 5627

Fax: 006 03 6204 5628

Email: [cscpress@cscjournals.org](mailto:cscpress@cscjournals.org)

CSC PUBLISHERS © 2010  
COMPUTER SCIENCE JOURNALS SDN BHD  
B-5-8 PLAZA MONT KIARA  
MONT KIARA  
50480, KUALA LUMPUR  
MALAYSIA

PHONE: 006 03 6204 5627  
FAX: 006 03 6204 5628  
EMAIL: [cscpress@cscjournals.org](mailto:cscpress@cscjournals.org)