

ISSN 2178-7107
Volume 4, Number 2, June 2013

JIDM

Journal of Information & Data Management



Journal of Information and Data Management - JIDM

JIDM is an electronic publication focusing on information and data management in large repositories and document collections. It relates to different areas from Computer Science, including databases, information retrieval, digital libraries, knowledge discovery and data mining, geographic information systems, among others.

Editors

Alberto H. F. Laender, UFMG, Brazil - Editor in chief

Vanessa Braganholo, UFF, Brazil - Associate Editor

Editorial Board

Amr El Abbadi - University of California, Santa Barbara, USA

Marcelo Arenas - PUC-Chile, Chile

Paolo Atzeni - Università Roma Tre, Italy

Ricardo Baeza-Yates - Yahoo! Research, Spain

Marco A. Casanova - PUC-Rio, Brazil

Silvana Castano - Università degli Studi di Milano, Italy

Umeshwar Dayal - HP Labs, USA

David W. Embley - Brigham Young University, USA

Alvaro Fernandes - University of Manchester, United Kingdom

Juliana Freire - University of Utah, USA

Theo Härder - University of Kaiserslautern, Germany

Carlos A. Heuser - UFRGS, Brazil

H.V. Jagadish - University of Michigan, USA

Tok-Wang Ling - National University of Singapore, Singapore

Marta Mattoso - UFRJ, Brazil

Claudia Bauzer Medeiros - UNICAMP, Brazil

René J. Miller - University of Toronto, Canada

John Mylopoulos - University of Trento, Italy

Mario Nascimento - University of Alberta, Canada

Tamer Ozü - University of Waterloo, Canada

Oscar Pastor - Universidad Politécnica de Valencia, Spain

Alain Pirotte - Université Catholique de Louvain, Belgium

Gustavo Rossi - Universidad de La Plata, Argentina

Ana Carolina Salgado - UFPE, Brazil

Daniel Schwabe - PUC-Rio, Brazil

Altigran S. da Silva - UFAM, Brazil

Mário J. Silva - Universidade de Lisboa, Portugal

Caetano Traina Jr. - USP-SC, Brazil

Patrick Valduriez - INRIA, France

Gerhard Weikum - Max-Planck Institut für Informatik, Germany

Nívio Ziviani - UFMG, Brazil

Journal of Information and Data Management
Volume 4, Number 2, June 2013

Contents

Editorial	67
Research Groups	
The Chilean DataBase Group <i>Marcelo Arenas, Pablo Barceló, Loreto Bravo, Claudio Gutiérrez, Jorge Pérez, Juan Reutter, M. Andrea Rodríguez</i>	68
SBBD 2012 Short Papers	
Approaches to Model Query Interactions <i>Manoel Siqueira, José Maria Monteiro, Angelo Brayner, José Macedo, Javam Machado</i>	84
Early Classification: A New Heuristic to Improve the Classification Step of K-Means <i>Joaquín Pérez, Carlos Eduardo Pires, Leandro Balby, Adriana Mexicano, Miguel Ángel Hidalgo</i>	94
Extracting and Semantically Integrating Implicit Schemas from Multiple Spreadsheets of Biology based on the Recognition of their Nature <i>Ivelize R. Bernardo, Matheus S. Mota, André Santanchè</i>	104
Constraint-Based Search of Straddling Biclusters and Discriminative Patterns <i>Israel Guerra, Loïc Cerf, João Foscarini, Michel Boaventura, Wagner Meira Jr.</i>	114
GeoInfo 2012	
Assessing the Attractiveness of Places with Movement Data <i>Andre S. Furtado, Renato Fileto, Chiara Renso</i>	124
An Approach to Visualization and Clustering-based Analysis on Spatiotemporal Data <i>Maxwell Guimares de Oliveira, Cludio de Souza Baptista</i>	134
Geographic Data Access in an Ontology-based Peer Data Management System <i>Rafael Figueiredo, Daniela Pitta, Ana Carolina Salgado, Damires Souza</i>	146
An Extensible Real-time Visualization Pipeline for Dynamic Spatial Modelling <i>Antônio José C. Rodrigues, Tiago G. S. Carneiro, Pedro R. Andrade</i>	156