

JIDM - Journal of Information and Data Management

Alberto H. F. Laender, Mirella M. Moro

Universidade Federal de Minas Gerais, Brazil
{laender, mirella}@dcc.ufmg.br

Abstract. JIDM is a new electronic publication focusing on information and data management in large repositories and document collections. This paper introduces the journal, its scope and topics, and the submission process. Finally, it also summarizes information on SBBD, since all of its accepted full papers will be published in the October edition of JIDM.

Categories and Subject Descriptors: H. Information Systems [**H.m. Miscellaneous**]: Databases

Keywords: JIDM, template

1. CALL FOR PAPERS

JIDM is a new 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, data mining, geographical information systems, among others.

1.1 Scope and Topics

JIDM welcomes papers on a full range of research on information and data management, including (but not limited to):

- Active Databases
- Access methods and indexing
- Authorization, Privacy and Security
- Concurrency Control and Recovery
- Data Mining and Knowledge Discovery
- Data Semantics
- Data Visualization
- Data Warehousing
- Database Design
- Digital Libraries
- Geographical Information Systems
- Information Integration and Interoperability
- Information Retrieval

Copyright©2010 Permission to copy without fee all or part of the material printed in JIDM is granted provided that the copies are not made or distributed for commercial advantage, and that notice is given that copying is by permission of the Sociedade Brasileira de Computação.

- Knowledge Bases
- Mobile Data
- Multidimensional and Temporal Databases
- Multimedia Databases
- Object-Oriented and Databases
- Peer to peer, Parallel and Distributed Databases
- Performance and Benchmarking
- Query Languages and User Interfaces
- Query Processing and Optimization
- Scientific and Statistical Databases
- Semi-structured Databases and XML
- Self-managed and Autonomic Databases
- Spatial Databases
- Stream-based processing and Sensor Databases
- Textual Databases
- Web Databases
- Web Services

1.2 Types of Submission

JIDM welcomes **research** papers that both lay theoretical foundations and provide new insights into the aforementioned areas. JIDM also solicits **surveys** that should make a contribution to our understanding of related topics from the information and data perspective. Eventually, JIDM may publish **reports** of meetings and working groups organized to evaluate the future of a given research field. Each paper will be reviewed by three different peers.

1.3 Submission Instructions

Research papers should have up to 16 pages, survey papers up to 20 pages, and reports up to 6 pages. The editors should be contacted if more pages are necessary. Papers must be submitted in a PDF file according to the journal format. Papers should be submitted by JIDM website at:

<http://seer.lcc.ufmg.br/index.php/jidm>

1.4 Format Instructions

We do not encourage the use of Microsoft Word, particularly as the layout of the pages (the position of figures and paragraphs) can change between printouts. However, we are working on mapping this template to word.

The templates for LATEX are available at the associated editor's webpage:

<http://www.dcc.ufmg.br/~mirella/jidm/templates>

This folder has the following files:

- template.pdf
- jidm-template.zip
- jidm-template.rar

Fig. 1. JIDM and SBBD schedules: as a figure

Table I. JIDM and SBBD schedules: as a table (with different font resources)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
JIDM	-	Issue 1	-	-	-	Issue 2	-	-	-	Issue 3	-	-
SBBD	-		-	SBBD Deadlines		Notification	Revised Version	Final Acceptance	-	Presentations	-	-

where the compacted files have:

- jidmb.bib - an example of bibliography entries
- jidm.cls - the latex template class for jidm
- jidm.bst - the latex template for bibliography entries
- template.tex - an example of tex file (with a figure in *schedule.eps*)

Prospective authors should take a look at the `template.tex` for more information on the format, for example: how to add more than one institution to the affiliation and references to books [Baeza-Yates and Ribeiro-Neto 1999], book chapters [Borgida et al. 2009], conference papers [Ferreira et al. 2009], conference papers on book series (e.g., LNCS) [da Silva et al. 1996], journal articles [Laender et al. 2009], PhD thesis [Moro 2007] and information published online¹ [Berglund et al. 2007]. The file *jidmb.bib* has examples of how to name conference proceedings and journals.

2. SBBD SUBMISSIONS

SBBD is the official database event of the Brazilian Computer Society (SBC). It has been the largest venue in Latin America for presentation and discussion of research results in the database domain. SBBD joins researchers, students and practitioners, from Brazil and abroad, for discussing problems related to the main topics in modern database technologies.

From 2010 on, SBBD submission process is integrated with JIDM. All accepted full papers will be published in the October issue of JIDM and the SBBD review process will be integrated with that journal review procedure, as follows. Papers will be registered and submitted as usual (around April/May), using **JEMS**² website. The submissions will then go through a first round of revisions and the authors will receive their reviews by June. These reviews may request the submission to be revised and the revised version must be submitted by July for another review round. The reviews and acceptances for the revised version will be sent to authors by August.

Papers that are accepted by August will be published in the October JIDM edition and presented at SBBD. Papers that are accepted after that date should be published in the February 2011 JIDM edition and presented at SBBD 2011. For example, Figure 1 illustrates the regular schedule for JIDM and SBBD, which is also represented in Table I (in order to show how to add figures and tables to your paper).

¹Note: in case the URL refers to a software, dataset source or any other information that does not have a proper author, it is better to include it as a footnote, e.g.: “Biblioteca Digital Brasileira de Computação: <http://www.lbd.dcc.ufmg.br/bdbcomp>”

²JEMS: <https://submissoes.sbc.org.br>

Papers submitted to SBBD must not have been simultaneously submitted to any other forum (conference or journal), nor should they have already been published elsewhere. The acceptance of a paper implies that at least one of its authors will register for the symposium to present it. Submitted papers will be reviewed based on originality, relevance, technical soundness and clarity of presentation.

Full papers must be composed using the JIDM template. Papers exceeding the page limit of the submission type will be automatically rejected without being reviewed by the Program Committee. In addition, all papers must be submitted in PDF format. Formats other than PDF will NOT be accepted. However, exceptionally and upon request, generic postscript might be accepted.

3. CONTACTS

Questions regarding JIDM should be emailed to the editors:

Editor in Chief - Alberto H. F. Laender, email: laender@dcc.ufmg.br

Associate Editor - Mirella M. Moro, email: mirella@dcc.ufmg.br

A. LATEX INSTRUCTIONS

This section overviews some basic instructions for writing a paper to JIDM using LATEX.

A.1 First Lines

The first lines of your tex file identify the document class, packages, new definitions and environments the paper will use. Specifically:

- (1) The document class must be *jidm.cls* and is defined as follows:

```
\documentclass[jidm,a4paper]{jidm}
```

Note that JIDM is published on A4 paper.

- (2) You may use as many packages as you want. However, we suggest you use *graphicx* and *url* for figures and url format, and *fontenc* for avoiding warnings such as “*LaTeX Font Warning: Font shape 'OMS/cmtt/m/n' undefined*”. You can define them as follows:

```
\usepackage{graphicx,url}
\usepackage[T1]{fontenc}
```

Please note that including the package *cite* may conflict with our template for bibliographic references (*jidm.bst*).

- (3) You may also use new definitions, such as the ones included in JIDM template:

```
\newtheorem{theorem}{Theorem}[section]
\newtheorem{conjecture}[theorem]{Conjecture}
\newtheorem{corollary}[theorem]{Corollary}
\newtheorem{proposition}[theorem]{Proposition}
\newtheorem{lemma}[theorem]{Lemma}
\newdef{definition}[theorem]{Definition}
\newdef{remark}[theorem]{Remark}
```

- (4) You may also add new environments, such as the one included in JIDM template:

```
\newenvironment{latexcode}
```

```
{\vspace{0.1in}\setlength{\parindent}{18pt}}
{\vspace{0.1in}}
```

A.2 Mandatory Fields

The initial lines are followed by mandatory fields which compose the paper metadata. It is very important that all of them be correctly written as follows.

- (1) The footer of each paper includes the name of the journal, and volume, number, month and year of its publication; the footer of the title page has also the initial and final page numbers; each page is also numbered (at the external margin). This information is given by the editors prior to the paper publication. In order to add it to your paper, use the following.

```
\jdmVolume{1}
\jdmNumber{1}
\jdmYear{10}
\jdmMonth{February}
\setcounter{page}{3}
```

Note that the *setcounter* establishes the number of the first page of your paper.

- (2) Each paper has a left and right-headers composed of two parts: the abbreviated names of the authors and the title. Both parts are defined as follows:

```
\markboth{A. H. F. Laender and M. M. Moro}
{JIDM - Journal of Information and Data Management}
```

Note that the first parameter has the authors, which are defined following these rules:

- If there is one author, then use author's full name, such as *Alberto H. F. Laender*.
- If there are two or three authors, then abbreviate each author's first name such as *A. H. F. Laender and M. M. Moro*.
- If there are more than three authors, then the format is *Alberto H. F. Laender et. al.*

The second parameter is the title. If the title is too long, contract it by omitting subtitles and phrases, *not* by abbreviating words.

- (3) The title of the paper is defined as follows:

```
\title{JIDM - Journal of Information \ and Data Management}
```

Note that if you want to break the title in two, just add a line within it with two consecutive backslashes (\\).

- (4) After the title, you need to define the name of the authors and their affiliations, as follows.

```
\author{Alberto H. F. Laender, Mirella M. Moro}
\institute{Universidade Federal de Minas Gerais, Brazil \}
\email{{laender, mirella}@dcc.ufmg.br}
```

Note that both authors belong to the same university. If you have authors from different places, you write their information as follows:

```
\author{Alberto H. F. Laender\inst{1}, Mirella M. Moro\inst{2}}
\institute{Universidade Federal de Minas Gerais, Brazil \}
\email{laender@dcc.ufmg.br}
\and
Mirella's Own Company, Brazil \}
\email{mirella@dcc.ufmg.br} }
```

- (5) The next step is to add the abstract within the abstract environment, as follows.

```
\begin{abstract}
Text of your abstract using from 100 to 300 words, without any references.
\end{abstract}
```

- (6) After the abstract, you should include information for the ACM Computing Classification, as follows.

```
\category{H.4.0}{Information Systems Applications}{General}
```

where the last argument (which contains the subject descriptors) is optional, since some categories have none. Multiple subject descriptors are separated by `\and` commands, for example:

```
\category{I.7.2}{Text Processing}{Document Preparation}
[Languages \and Photocomposition]).
```

If you have more than one category, use a separate `\category` declaration. The list of categories is available at the website <http://www.acm.org/about/class/1998/>.

- (7) Then, the keywords are specified in alphabetical order as follows.

```
\keywords{JIDM, template}
```

Note that keywords can also be expressions, such as *XML query optimization*.

- (8) The paper then begins as follows.

```
\begin{document}
```

- (9) It is common to thank funding agencies for research grants. If necessary, that information is defined in the *bottomstuff* environment, as follows.

```
\begin{bottomstuff}
This work was partially funded by NSF grant number XYZ.
\end{bottomstuff}
```

- (10) All the previous items complete the initial part of the paper. Then, you need to use the `\maketitle` command, which generates and formats all the previous items, as follows.

```
\maketitle
```

A.3 Body Content

The paper then follows with its regular content. Sections and subsections are defined as follows.

```
\section{Section title}
```

which defines a section in first level (i.e., *1. Section title*).

```
\subsection{Subsection title}
```

which defines a section in second level (i.e., *1.1. Subsection title*).

`\subsubsection{Subsubsection title}` defines a section in third level (i.e., *1.1.1. Subsubsection title*).

For further information, we refer to the following web sources:

--<http://en.wikibooks.org/wiki/LaTeX>

--<http://www.latex-project.org/>

A.4 Finishing your Paper

At the end of your paper, you may add appendix sections as follows.

```
\appendix
\section{Title of first appendix section}
Text text text
```

After the appendix, you may also add a section for acknowledgments, as follows.

```
\begin{ack}
Any acknowledgment you want.
\end{ack}
```

Then, you add the dates (if you do not add these lines, the footer of the title page will be wrong), as follows:

```
\begin{received} \end{received}
```

Finally, you must refer to the bibliography style and file, as follows.

```
\bibliographystyle{jidm}
\bibliography{jidmb}
```

where the file *jidmb.bib* has all references. We try to keep the names of proceedings and journals following the same pattern. Do consider checking out the file *jidmb.bib* for very common names.

REFERENCES

- BAEZA-YATES, R. A. AND RIBEIRO-NETO, B. A. *Modern Information Retrieval*. ACM Press / Addison-Wesley, 1999.
- BERGLUND, A., BOAG, S., CHAMBERLIN, D., FERNÁNDEZ, M. F., KAY, M., ROBIE, J., AND SIMÉON, J. XML Path Language (XPath) 2.0, W3C Recommendation. <http://www.w3.org/TR/xpath20>, 2007.
- BORGIDA, A., CASANOVA, M. A., AND LAENDER, A. H. F. Logical Database Design: from Conceptual to Logical Schema. In L. Ling and T. M. Özsu (Eds.), *Encyclopedia of Database Systems*. Springer, Berlin, pp. 1645–1649, 2009.
- DA SILVA, A. S., LAENDER, A. H. F., AND CASANOVA, M. A. An Approach to Maintaining Optimized Relational Representations of Entity-Relationship Schemas. In B. Thalheim (Ed.), *Conceptual Modeling - ER'96*. Lecture Notes in Computer Science, vol. 1920. Springer, pp. 292–308, 1996.
- FERREIRA, A. A., GONÇALVES, M. A., ALMEIDA, J. M., LAENDER, A. H. F., AND VELOSO, A. SyGAR - A Synthetic Data Generator for Evaluating Name Disambiguation Methods. In *Proceedings of the European Conference on Research and Advanced Technology for Digital Libraries*. Corfu, Greece, pp. 437–441, 2009.
- LAENDER, A. H. F., MORO, M. M., NASCIMENTO, C., AND MARTINS, P. An X-ray on Web-available XML Schemas. *SIGMOD Record* 38 (1): 37–42, 2009.
- MORO, M. M. *The Role of Structural Aggregation for Query Processing over XML Data*. Ph.D. thesis, University of California, Riverside (UCR), USA, 2007.