

Typesetting INFORMATICA journal

Instruction manual

VTeX

v0.1 - 2020/04/06

1 Introduction

The INFORMATICA package consists of an instruction manual ([informanual.pdf](#)), a sample article ([infor-sample.tex](#)) and sample bibtex database ([biblio.bib](#)), documentclass ([infor.cls](#)), bibtex style ([infor.bst](#)) and a template ([infor-template.tex](#)).

The document class [infor.cls](#) is primarily build upon [article.cls](#) and depend on the following packages:

- etoolbox
- textcomp
- natbib
- graphicx
- amsmath, amsthm, amssymb
- xcolor
- index
- hyperref

2 Compiling

Please use [latex](#) or [pdflatex](#) to compile a manuscript.

```
cmd> (pdf)latex paper
```

```
cmd> bibtex paper
```

```
cmd> (pdf)latex paper
```

3 Frontmatter

3.1 Title

Setup:

```
\title{A sample document}
```

3.2 Auhors and addresses

Setup:

```
\author[a]{\inits{F.}\fnms{Firstname1} \snm{Surname1}\thanksref{c1}\ead[label=e1]{aut1@foo.com}}  
\author[b]{\inits{S.}\fnms{Firstname2} \snm{Surname2}\thanksref{f1}\ead[label=e2]{aut2@foo.com}}  
\thankstext[type=corresp,id=c1]{Corresponding author.}  
\thankstext[id=f1]{Simple footnote}
```

```
\address[a]{Address of the First author}
```

```
\address[b]{Address of the Second author, \institution{University}, \cny{Country name}}
```

Output:

Firstname1 SURNAME1^{a,*}, Firstname2 SURNAME2^{b,1}
^a*Address of the First author*
^b*Address of the Second author, University, Country name*
e-mail: aut1@foo.com, aut2@foo.com

`\author` command has optional parameter, that serves as an identifier, and which can be used in `\address` field to identify address belonging. Macros `\inits`, `\fnms`, `\snm` stands for author's initials, first names and surname accordingly. Use `\thanksref` and `\thankstext` macro to identify and print title page footnotes. In addition `type=corresp` key in `\thankstext` will use `*` as a footnote mark. It is used for corresponding author identification. Email address should be provided in a `\ead[label=id]` macro.

3.3 Abstract

```
\begin{abstract}
Abstract ..
\end{abstract}
```

3.4 Keywords

```
\begin{keywords}
\kwd{Large deviations}
\kwd{Volterra processes}
\kwd{conditional processes}
\end{keywords}
```

Please add different keywords in `\kwd` macro.

4 Headings

Headings are generated automatically by printing authors (in even page) and title (in odd page). Use `\runtitle{}` and `\runauthor{}` if necessary to change auto-generated ones.

5 Floats

Figures may be included using the command `\includegraphics` in combination with options if needed. `\includegraphics` is provided by `graphicx.sty` package which is part of standard L^AT_EX distribution. `graphicx.sty` is loaded by default.

6 Theorems and theorem like environments

The class file `infor.cls` by default loads `amsthm` package, which provides three theorem styles – *plain*, *definition*, *remark*.

```
\theoremstyle{plain}\newtheorem{thm}{Theorem}
\theoremstyle{remark}\newtheorem{remark}{Remark}
```

```
\begin{note}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{note}
```

```
\begin{note}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{note}
```

```
\begin{note}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{note}
```

```
\begin{proof} The theorem is proved.
\end{proof}
```

Output:

Theorem 1 (Quantitative theorem). *Quae semper tutum est medium inter homines et deum, pro culpis remedium.*

REMARK 1 (*Quantitative theorem*). *Quae semper tutum est medium inter homines et deum, pro culpis remedium.*

Proof. The theorem is proved. □

7 Enumerated and itemized lists

`enumerate` and `itemize` environments supports optional parameter to set the width of the widest label (eg. `\begin{itemize}[iii]`).

```
\begin{itemize}
\item bbb
\item bbb
\begin{itemize}
\item bbb
\item bbb
\end{itemize}
\end{itemize}

\begin{enumerate}
\item bbb
\item bbb
\begin{enumerate}
\item bbb
\item bbb
\end{enumerate}
\end{enumerate}

\begin{description}
\item[Description label.] Vanum est vobis ante lucem surgere: surgite postquam
sederitis, qui manducatis panem doloris. Praestet nobis deus, pater
hoc et filius et mater praestet nobis.

\item[Description label.] Nisi custodierit civitatem,
frustra vigilat qui custodit eam. Cum dederit dilectis suis somnum:
ecce haereditas filii: merces, fructus ventris. Sicut sagittae in
many potentis: Ita filii excussorum.
\end{description}
```

Output:

- bbb
- bbb
 - bbb
 - bbb
- 1. bbb
- 2. bbb
 - a) bbb
 - b) bbb

Description label. Vanum est vobis ante lucem surgere: surgite postquam sederitis, qui manducatis panem doloris. Praestet nobis deus, pater hoc et filius et mater praestet nobis.

Description label. Nisi custodierit civitatem, frustra vigilat qui custodit eam. Cum dederit dilectis suis somnum: ecce haereditas filii: merces, fructus ventris. Sicut sagittae in many potentis: Ita filii excussorum.

8 Cross-references

In electronic publications, articles may be internally hyperlinked. Hyperlinks are generated from proper cross-references in the article. For example, the words `Fig. 1` will never be more than simple text ,

whereas the proper cross-reference `\ref{dice}` may be turned into a hyperlink to the figure itself: Fig. 1.

9 Bibliography

Use bibtex database and `infor.bst` style for bibliography items.

```
\bibliographystyle{infor}  
\bibliography{biblio}% your bibliography database
```

To produce bbl file issue

```
cmd> bibtex paper
```

in a command prompt.

You will get highly customised bbl file.

10 Biography

Authors involved in this research can be described in `biography` environments. Put the authors name into `\author` macro. Biographies should be typeset at the end of article right after bibliography.

```
\begin{biography}  
\author{F. Surname1} obtained his PhD in ...  
\end{biography}
```

11 Submission

Please submit a single zip file which contains the following files:

- paper.tex
- paper.pdf or paper.ps
- paper.bbl
- *.eps, *.pdf (EPS or PDF images)
- <you-file>.bib bibtex data base