

Typesetting articles for VMSTA journal

Instruction manual

VTeX

v0.1 - 2014/09

v0.2 - 2014/10

1 Introduction

The VMSTA package consists of an instruction manual ([vmstadoc.tex](#)), a sample article ([vmsta-sample.tex](#)) and sample bibtex database ([biblio.bib](#)), documentclass ([vmsta.cls](#)), bibtex style ([vmsta-num.bst](#)) and a template ([vmsta-template.tex](#)).

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

- natbib
- graphicx
- amsmath, amsthm, amssymb
- 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 Authors and addresses

Setup:

```
\author[a]{\inits{F.}\fnm{Firstname-1}\snm{Surname-1}\corref{cor1}}  
\email{first@somewhere.com}\cortext[cor1]{Corresponding author.}  
\author[b]{\inits{S.}\fnm{Firstname-2}\snm{Surname-2}\fnref{f1}}  
\email{second@somewhere.com}\fntext[f1]{Some remarks.}
```

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

Output:

Firstname-1 Surname-1^{a,*}, Firstname-2 Surname-2^{b,1}

^a*Address of the First author*

^b*Address of the Second author*

first@somewhere.com (F. Surname-1), second@somewhere.com (S. Surname-2)

`\author` command has optional parameter, that serves as an identifier, and which can be used in `\address` field to identify address belonging. Macros `\inits`, `\fnm`, `\snm` stands for author's initials, firstname and surname accordingly. Use `\corref` and `\cortext` macro to identify and print corresponding author(s). Email address should be provided in a `\email` macro.

3.3 Abstract

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

3.4 Keywords

```
\begin{keyword} keyword-1 \sep keyword-2
\MSC[2010] msc-keyword-1 \sep msc-keyword-2
\end{keyword}
```

Please use `\sep` macro to separate different keyword. Use `\MSC[2010]` macro to print MSC keywords.

4 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.

5 Theorems and theorem like environments

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

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

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

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

Output:

Theorem 2 (Quantitative theorem). *Quae semper tutum est medium inter homines et deum, pro culpis remedium.*

Proof. The theorem is proved. □

6 Enumerated and itemized lists

Standard L^AT_EX `enumerate` and `itemize` environments should be used.

7 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.

8 Bibliography

Use bibtex database and `vmsta-mathphys.bst` style for bibliography items.

```
\bibliographystyle{vmsta-mathphys}  
\bibliography{biblio}% your bibliography database
```

To produce bbl file issue

cmd> `bibtex paper`

in a command prompt.

You will get highly customised bbl file.

9 Submission

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

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