

Typesetting articles for VMSTA journal

VTeX

v0.1 - 2014/09

v0.2 - 2014/10

v0.3 - 2025/05

latex-support@vtex.lt (VTeX)

1 Introduction

The VMSTA package consists of the instruction manual ([vmstadoc.pdf](#)), a sample article ([vmsta-sample.tex](#)) and sample Bib_T_EX database ([biblio.bib](#)), La_T_EX document class ([vmsta2.cls](#)), document class configuration ([vmsta2-dist.cfg](#)), Bib_T_EX style ([vmsta2-mathphys.bst](#)) and the template ([vmsta-template.tex](#)).

The La_T_EX document class [vmsta2.cls](#) is primarily build upon [article.cls](#) and depend on the following packages:

- *nimbusserif*, *nimbusmono*, *nimbussans*
- *natbib*
- *graphicx*
- *amsmath*, *amsthm*, *amssymb*
- *newtxmath*
- *geometry*, *xcolor*
- *hyperref*

2 Compiling

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

```
cmd> lualatex paper
```

```
cmd> bibtex paper
```

```
cmd> lualatex paper
```

3 Front matter

3.1 Title

Setup:

```
\title{A sample document}
\runtitle{A sample running head title}
```

`\runtitle` can be left out commented for short titles.

3.2 Authors and addresses

Setup:

```
\begin{aug}
\author[a]{\inits{F.N.}\fnms{First-Name1}~\snm{Surname-1}%
\thanksref{cor1}\ead[label=e1]{first@somewhere.com}%
\orcid{0000-0000-0000-0000}}
\thankstext[type=corresp,id=cor1]{Corresponding author.}
\author[b]{\inits{S.N.}\fnms{First-Name2}~\snm{Surname-2}%
\thanksref{f1}\ead[label=e2]{second@somewhere.com}}
\thankstext[id=f1]{Some remarks.}

\address[a]{\institution{Institution of the First author}, \\\
Street 123, ZIP City, \cny{Country}}
\address[b]{Address of the Second author\\
usually few lines long, \cny{Country}}
\runauthor{F.N. Author, S.N. Author}
\end{aug}
```

Output:

First-Name1 Surname-1^{a,*}, First-Name2 Surname-2^{b,1}

^a*Institution of the First author,
Street 123, ZIP City, Country*

^b*Address of the Second author
usually few lines long, Country*

first@somewhere.com (F.N. Surname-1), second@somewhere.com (S.N. 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`, `\fnms`, `\snm` stands for author's initials, first name and surname accordingly.

Use `\thanksref{cor1}` and `\thankstext[type=corresp,id=cor1]{...}` macro to identify and print corresponding author(s).

Email address should be provided in a `\ead[label=...]` macro.

Use `\runauthor` if automatic running head authors failed.

3.3 Abstract

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

3.4 Keywords

```
\begin{keyword}
\kwd{keyword-1}
\kwd{keyword-2}
\end{keyword}

\begin{keyword} [MSC2020]
\kwd{msc-keyword-1}
\kwd{msc-keyword-2}
\end{keyword}
```

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 `vmsta2.cls` by default loads `amsthm` package, which provides three theorem styles – *plain*, *definition*, *remark*.

```
\theoremstyle{plain}\newtheorem{thm}{Theorem}
\theoremstyle{definition}\newtheorem{def}{Definition}

\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:

Lemma 1. *Maria virgo illa dulcis, praedicata de propheta porta orientalis. Tempus putationis advenit. Illa sacra et felix porta, per quam mors fuit expulsa, introduxit autem vitam.*

Proof. The lemma 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 Bib_TE_X database and `vmsta2-mathphys.bst` style for bibliography items.

```
\bibliographystyle{vmsta2-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`
- `paper.bbl`
- `img/*.eps,*.pdf` (EPS or PDF images)
- `<your-file>.bib` Bib_TE_X data base