# Typesetting Data Science journal

#### Instruction manual

**VTeX** 

v0.1 - 2020/12/11

### 1 Introduction

This package consists of an instruction manual (jdsmanual.pdf), a sample article (jds-sample.tex) and sample bibtex database (biblio.bib), documenclass (jdsart.cls), bibtex style (jds.bst) and a template (jds-template.tex).

The document class jdsart.cls is primarily build upon article.cls and depend on the following packages:

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

# 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[1]{\inits{F.}\fnms{Firstname1} \snm{Surname1}\thanksref{c1}%
  \ead[label=e1]{aut@foo.com}\ead[label=e1]{aut@foo2.com}}
\author[2]{\inits{S.}\fnms{Firstname2} \snm{Surname2}\thanksref{f1}}
\thankstext[type=corresp,id=c1]{Corresponding author.}
\thankstext[id=f1]{Simple footnote.}
\address[1]{Address of the First author, \institution{University}, \cny{Country name}}
\address[2]{Address of the Second author, \institution{University}, \cny{Country name}}
```

#### Output authors:

# FIRSTNAME1 SURNAME $1^{1,*}$ AND FIRSTNAME2 SURNAME $2^{2,\dagger}$

<sup>1</sup>Address of the First author, University, Country name <sup>2</sup>Address of the Second author, University, Country name

#### Output footnotes:

\*Corresponding author. Email: aut@foo.com or aut@foo2.com. †Simple footnote.

\author command has optional parameter, that serves as and 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 adition type=corresp key in \thankstext will use \* as a footnote mark. It is use for corresponding author identification. Corresponding authors email address should be provided with \ead{} macros.

### 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 makro.

# 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 LATEX distribution. graphicx.sty is loaded by default.

#### 6 Theorems and theorem like environments

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

```
\theoremstyle{plain}\newtheorem{thm}{Theorem}
\theoremstyle{remark}\newtheorem{remark}{Remark}
\theoremstyle{definition}\newtheorem{defin}{Definition}
\begin{thm}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{thm}
\begin{remark}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{remark}
\begin{defin}[Quantitative theorem] Quae semper tutum est medium inter homines et deum,
pro culpis remedium.
\end{defin}
\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.

**Definition 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

Lists uses standard package enumitem. It provides user control over the layout of the three basic list environments: enumerate, itemize and description.

# 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 jds.bst style for bibliography items.

```
\bibliographystyle{jds}
\bibliography{biblio}% your bibliography database
To procude bbl file issue
cmd> bibtex paper
in a command promt.
You will get higly customised bbl file.
```

# 10 Submition

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