

## Manuscript instructions for authors of ADAC

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The date of receipt and acceptance will be inserted by the editor

**Abstract** This  $\LaTeX$ file explains the formatting instructions when writing  $\LaTeX$ manuscripts for the journal 'Advances in Data Analysis and Applications (ADAC)'. It combines Springer's writing instructions from the journal's website [www.springer.com/journal/11634](http://www.springer.com/journal/11634) with a more detailed description of ADAC specific rules and procedures. This file is written in the required standard and can be directly used as a template for manuscripts.

**Keywords** Instructions · Manuscripts for ADAC · More

**Subject classification** JEL xxx, AMS xxx, etc.

### 1 Introduction: The $\LaTeX$ system for ADAC manuscripts

This  $\LaTeX$ file explains technical formatting instructions for writing  $\LaTeX$ manuscripts for the journal 'Advances in Data Analysis and Applications (ADAC)'. It combines a slightly modified version of Springer's writing instructions from the journal's website [www.springer.com/journal/11634](http://www.springer.com/journal/11634) with a detailed description of ADAC specific rules and procedures. The underlying system is Springer's general  $\LaTeX$ Macro Package related to the format style `svjour3.cls`. It can be downloaded by  
`ftp://ftp.springer.de/pub/tex/latex/svjour3/global.zip`.

However, an ADAC specific set of all necessary (style, template,...) files is

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contained in the file `ADAC-Instructions_for_Authors.zip` that can be downloaded from the website [www.stochastik.rwth-aachen.de](http://www.stochastik.rwth-aachen.de) ( $\rightarrow$  Download for ADAC). The present instruction file

`A1-ADAC_Specimen_file_for_Manuscripts_using_LaTeX.tex` is written in the prescribed format and can be used as a template such that authors can copy it and directly replace the written text by their own text.

Please use only standard packages in your L<sup>A</sup>T<sub>E</sub>X file such as *amsmath*, *amsfonts*, *latexsym*, *psfig*, *graphicx*, etc. Special or personal style files must be sent with the manuscript.

## 2 Heading, abstract, and keywords

### 2.1 Title

The title page should include:

- A concise and informative title
- The name(s) of the author(s)
- The affiliation(s) and address(es) of the author(s)
- The e-mail address, telephone and fax numbers of the communicating author (in the footnote)

### 2.2 Abstract, keywords, subject classification

Each paper must be preceded by an abstract presenting the most important results and conclusions in no more than 10 lines. The abstract should not contain any undefined abbreviations or unspecified references.

Please provide 4 to 6 keywords after the Abstract for indexing purposes.

Please provide also the classification of the topic of your paper in the JEL (Journal of Economic Literature) and/or AMS (American Mathematical Society) classification systems; see [www.aeaweb.org/journal/jel\\_class\\_system.html](http://www.aeaweb.org/journal/jel_class_system.html) and [www.ams.org/msc](http://www.ams.org/msc), respectively.

## 3 Running text

### 3.1 Fonts and colours

The standard text style for manuscripts is `\rm`. Other style options:

- for textual emphasis use italic types `\it`
- use boldface type `\bf` only for special purposes.

Pages should be numbered.

Typically the text will be printed in black and white. If you use commands such as `{\color{red} colours}` the colour will not be seen in the printed text, but in the electronic version of your article only. Please make sure to use

colours that provide sufficient contrast when printed in black and white. If an author wants to include colours in the printed version of his article, he can do so after paying an extra fee (please contact Springer for details).

Manuscripts must be written in English. In order to facilitate the reviewing process, authors are requested to use a standard and well readable English wording. In case of problems with the English language, authors are requested to consult a more experienced or a native English speaking colleague before submitting their manuscript.

### 3.2 Sections, subsections, and paragraphs

Please use only the L<sup>A</sup>T<sub>E</sub>X sectioning and subsectioning commands such as `\section`, `\subsection`, etc. Only capitalize the first word of (sub)section titles. Don't forget to give each (sub)section a unique label for reference if needed (e.g., see Section 1).

*Paragraph headings* Use paragraph headings as needed.

### 3.3 Footnotes

Footnotes on the title page are not given reference symbols. Footnotes to the text are numbered consecutively; those to tables should be indicated by superscript lower-case letters (or asterisks for significance values and other statistical data).

## 4 Equations, figures, and tables

*Equations:* Equations should be typed using the L<sup>A</sup>T<sub>E</sub>X commands `\begin{equation}` ... `\end{equation}` or `\begin{eqnarray}` ... `\end{eqnarray}` (for equations with several lines). For example:

$$a^2 + b^2 = c^2 \tag{1}$$

or

$$\begin{aligned} g(\mathcal{C}) &:= \sum_{i=1}^m \sum_{k \in C_i} \|x_k - \bar{x}_{C_i}\|^2 \\ &= \sum_{k=1}^n \|x_k\|^2 - \sum_{i=1}^m |C_i| \cdot \|\bar{x}_{C_i}\|^2. \end{aligned} \tag{2}$$

If the equation should not be numbered, use `\begin{eqnarray*}` ... `\end{eqnarray*}` or `\begin{displaymath}` ... `\end{displaymath}`. Number consecutively only those equations that are important or are referenced in the text. Place equation numbers in parentheses at the right margin.



**Fig. 1** Please write your figure caption here

*Figures:* Figures must be provided as separate **eps** files that are to be stored in the same directory as your source file, or in a suitable subdirectory. They must be included in the text with 'include' commands from the *graphicx* package such as

```
\includegraphics[width=xx, height=yy]{filename.eps}.
```

Figures should be numbered with Arabic numerals and cited in the text in consecutive numerical order. Each figure must have a caption that contains a brief, self-sufficient explanation of the illustration, e.g., “Fig. 3. Plot of ...”. The caption is to be placed at the bottom of the figure. Use capitalization when referring to a figure or a table in the text, for example, “In the center of Figure 3, the clusters ...”. Make sure to identify all elements found in a figure in the figure’s caption. Do not refer to colours in the legends since printing is in black and white. Identify any previously published material by giving the original source in the form of a reference at the end of the caption.

All figures (photographs, graphs, or diagrams) should be cited in the text, and each numbered consecutively throughout. Lowercase letters (a, b, etc.) should be used to identify figure parts. If illustrations are supplied with uppercase labeling, lowercase letters will still be used in the figure legends and citations. Two examples are provided by this LaTeX file (Fif. 1, Fig. 2).

*Tables:* Tables should have a table heading that explain clearly and concisely the components and any abbreviation of the table such as “Table 4. Data of ...”. The caption is to be placed on top of a table. Tables should be numbered consecutively in Arabic numerals and cited in the text in consecutive numerical order. Figure parts should be denoted by lower-case letters. Make sure to identify all elements of a table. Identify any previously published material by giving the original source in the form of a reference at the end of the table heading.

Footnotes to tables should be indicated by superscript lower-case letters (or asterisks for significance values and other statistical data).



**Fig. 2** Please write your figure caption here

**Table 1** This is an example of a table

first	second	third
number	number	number
number	number	number

## 5 References

The list of references should contain only works that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished works should only be mentioned in the text.

The list of references must be included at the end and arranged in alphabetical order of the authors (not [1], [GAU98] etc.). Do not use footnotes or endnotes as a substitute for a reference list. Always use standard abbreviations of a journal's name according to the ISSN List of Title Word Abbreviations, see <http://www.issn.org/en/node/344>.

A paper published online but not yet in print can be cited using the Digital Object Identifier (DOI). If available, the DOI can also be added at the end of references already published. For details about DOI see, e.g., <http://www.doi.org>

For your bibliography and the corresponding references in the text you can use either the *thebibliography* option (this option is realized in this template) or the `BibTeX` option both being provided by the  $\text{\LaTeX}$ system.

In each case you should use the following citation style within the text: Friedman (2006) (in parentheses: Friedman 2006), Kaski and Sinkkonen (2003). In the case of more than two authors: Hand et al. (2002). Do not use references of the type [1] or [GAU98].

When using the *thebibliography* option (recommended here) you can proceed for the citation of articles, books, and papers as illustrated by the examples at the end of this document.

Examples:

*Journals*: Names and initials of all authors; year in parentheses; full title of

paper cited; title of journal; volume number; first and last page numbers; DOI, if applicable.

Friedman J H (2006) Recent advances in predictive machine learning. *J Classification* 23: 175-197. DOI 10.1007/s00357-006-0012-4

*Books:* Names and initials of all authors; year in parentheses; full title; edition (eventually); publisher; place of publication.

Hand D, Adams N M, Bolton R J (2002) *Pattern detection and discovery*. Springer, Berlin Heidelberg New York

*Papers in edited books:*

Kaski S, Sinkkonen J (2003) Discriminative clustering. In: Schader M, Gaul W, Vichi M (eds) *Between data science and applied data analysis*. Springer, Berlin Heidelberg New York, pp 191-200

## 6 Submitting, reviewing, typesetting, proofreading

*Submission* Authors should submit their manuscript (a pdf file as well as the corresponding source and style files) electronically to [EditorADAC@stochastik.rwth-aachen.de](mailto:EditorADAC@stochastik.rwth-aachen.de).

*Reviewing* Submitted papers will undergo a double-blind refereeing process organized by a coordinating Editor. The Editors' decision on acceptance/rejection will be communicated to the authors typically in combination with the comments by the referees. Nevertheless, the Editors reserve the right to return to the authors any manuscript that in their opinion is not suitable for publication in *Advances in Data Analysis and Classification*, without expressly stipulating the reasons for doing so. Under no circumstances the identity of the reviewers and referees will be disclosed to the authors or to any other third party not involved in the editorial process.

*Printing and proofreading* During Springer's L<sup>A</sup>T<sub>E</sub>X-editing process L<sup>A</sup>T<sub>E</sub>X files are modified so that the general presentation rules of the journal are adhered to. WORD files are converted and should be proofread carefully by the author(s).

Authors will receive proofs as a pdf file before publication and should make their proof corrections on a printout of the pdf file or use the online correction facilities provided with the proof. They should check that the text is complete and that all figures and tables are included at their appropriate place. The author is entitled to formal corrections only. Corrections that lead to a change in the page layout should be avoided. Substantial changes in content, e.g. new results, corrected values, title and authorship, are not allowed without the approval of the responsible editor. In such a case please contact the Editor before returning the proofs to the publisher. After online publication, further changes can only be made in the form of an Erratum, which will be hyperlinked to the article.

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## References

- Friedman J H (2006) Recent advances in predictive machine learning. *J Classification* 23: 175-197. DOI 10.1007/s00357-006-0012-4
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