
A Demonstration of the $\LaTeX 2_{\epsilon}$ Class File for *Transportation Research Record*

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SAGE

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Abstract

This paper describes the use of the $\LaTeX 2_{\epsilon}$ TRR.cls class file for setting papers to be submitted to *Transportation Research Record*.

Many authors submitting to research journals use $\LaTeX 2_{\epsilon}$ to prepare their papers. This paper describes the TRR.cls class file which can be used to convert articles produced with other $\LaTeX 2_{\epsilon}$ class files into the correct form for submission to *Transportation Research Record*.

The TRR.cls class file preserves much of the standard $\LaTeX 2_{\epsilon}$ interface so that any document which was produced using the standard $\LaTeX 2_{\epsilon}$ article style can easily be converted to work with the TRR style. However, the width of text and typesize will vary from that of article.cls; therefore, *line breaks will change* and it is likely that displayed mathematics and tabular material will need re-setting.

In the following sections we describe how to lay out your code to use TRR.cls to reproduce much of the typographical look of *Transportation Research Record*. However, this paper is not a guide to using $\LaTeX 2_{\epsilon}$ and we would refer you to any of the many books available (see, for example, (1–3)).

The Three Golden Rules

Before we proceed, we would like to stress *three golden rules* that need to be followed to enable the most efficient use of your code at the typesetting stage:

- (i) keep your own macros to an absolute minimum;
- (ii) as \TeX is designed to make sensible spacing decisions by itself, do *not* use explicit horizontal or vertical spacing commands, except in a few accepted (mostly mathematical) situations, such as \backslash , before a differential d , or \backslashquad to separate an equation from its qualifier;
- (iii) follow the journal reference style (a TRR bst file is available).

Getting Started

The TRR class file should run on any standard $\LaTeX 2_{\epsilon}$ installation. If any of the fonts, style files or packages it

requires are missing from your installation, they can be found on the *TeX Collection* DVDs or downloaded from CTAN.

The Article Header Information

The heading for any file using TRR.cls is shown in Figure 1. *Transportation Research Record* is published using Times fonts and this is achieved by using the `times` option as `\documentclass[times]{TRR}`

If for any reason you have a problem using Times you can easily resort to Computer Modern fonts by removing the `times` option.

Remarks

- (i) In `\runninghead` use ‘et al’ if there are three or more authors.
- (ii) For multiple author papers please note the use of `\affilnum` to link names and affiliations. The corresponding author details need to be included using the `\corrauth` command.
- (iii) For submitting a double-spaced manuscript, add `doublespace` as an option to the `documentclass` line.
- (iv) The abstract should be capable of standing by itself, in the absence of the body of the article and of the bibliography. Therefore, it must not contain any reference citations.
- (vi) If you are submitting to a SAGE journal that requires numbered sections (for example, IJRR), please add the command `\setcounter{secnumdepth}{3}` just above the `\begin{document}` line.

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```

\documentclass[<options>]{TRR}

\begin{document}

\runninghead{<Author surnames>}

\title{<Title case>}

\author{<An Author\affilnum{1},
Someone Else\affilnum{2} and
Perhaps Another\affilnum{1}>}

\affiliation{<\affilnum{1}First and third authors' affiliation\
\affilnum{2}Second author affiliation>}

\corrauth{<Corresponding author's name and email address>}

\begin{abstract}
<Text>
\end{abstract}

\maketitle

\noindent <The first paragraph of text should not have a heading like 'Background'
or 'Introduction'>

.
.
.

```

Figure 1. Example header text.

The Body of the Article

Mathematics

TRR.cls makes the full functionality of \LaTeX available. We encourage the use of the `align`, `gather` and `multline` environments for displayed mathematics. `amsthm` is used for setting theorem-like and proof environments. The usual `\newtheorem` command needs to be used to set up the environments for your particular document.

Figures and Tables

TRR.cls includes the `graphicx` package for handling figures.

Figures are called in as follows:

```

\begin{figure}
\centering
\includegraphics{<figure name>}
\caption{<Figure caption>}
\end{figure}

```

For further details on how to size figures, etc., with the `graphicx` package see, for example, (1) or (3).

The standard coding for a table is shown in Figure 2.

```

\begin{table}
\small\sf\centering
\caption{<Table caption>}
\begin{tabular}{<table alignment>}
\toprule
<column headings>\
\midrule
<table entries
(separated by & as usual)>\
<table entries>\
.
.
.\
\bottomrule
\end{tabular}
\end{table}

```

Figure 2. Example table layout.

Cross-referencing

The use of the \LaTeX cross-reference system for figures, tables, equations, etc., is encouraged (using `\ref{<name>}` and `\label{<name>}`).

End of Paper Special Sections

The endmatter order should be as follows (please note that only the Author Contributions, Declaration of Conflicting Interests, and Funding statements will appear in every article):

- Authors' Note
- Acknowledgments
- Author Contributions
- Declaration of Conflicting Interests
- Funding
- Data Accessibility Statement

The commands available are:

```
\begin{an}
To typeset an
  "Authors' Note" section.
\end{an}

\begin{acks}
To typeset an
  "Acknowledgements" section.
\end{acks}

\begin{ac}
<To typeset an
  "Author Contributions" section.>
```

The authors confirm contribution to the paper as follows: study conception and design: X. Author, Y. Author; data collection: Y. Author; analysis and interpretation of results: X. Author, Y. Author. Z. Author; draft manuscript preparation: Y. Author. Z. Author. All authors reviewed the results and approved the final version of the manuscript.

```
\end{ac}

\begin{dci}
To typeset a "Declaration of
  conflicting interests" section.
\end{dci}

\begin{funding}
To typeset a "Funding" section.
\end{funding}

\begin{das}
To typeset a "Data Accessibility
  Statement" section.
\end{das}
```

References

Please note that the file TRR.bst is included with the class file for those authors using BIB_TE_X. The bst file works in a completely standard way:

```
\bibliographystyle{TRR}
\bibliography{<YourBibfile.bib>}
```

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Acknowledgements

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Website: <http://www.sunrise-setting.co.uk>

References

1. Kopka, H., and P. W. Daly. *A Guide to L^AT_EX*, 4th edn. Addison-Wesley, 2003.
2. Lamport, L. *L^AT_EX: a Document Preparation System*, 2nd edn. Addison-Wesley, 1994.
3. Mittelbach, F., and M. Goossens. *The L^AT_EX Companion*, 2nd edn. Addison-Wesley, 2004.