

# A demonstration of the $\LaTeX 2_{\epsilon}$ class file for *EAI Endorsed Transactions*★

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## Abstract

INTRODUCTION: This is the introductory text.

OBJECTIVES: This is the objective of this paper.

METHODS: Techniques derived from social network analysis for employed to conduct this research.

RESULTS: The main results obtained in this paper are the following.

CONCLUSION: These are the conclusions of this paper.

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**Keywords:** class file,  $\LaTeX 2_{\epsilon}$ , *EAI Endorsed Transactions*

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## 1. Introduction

Many authors submitting to research journals use  $\LaTeX 2_{\epsilon}$  to prepare their papers. This paper describes the `icst.cls` class file which can be used to convert articles produced with other  $\LaTeX 2_{\epsilon}$  class files into the correct form for publication in *EAI Endorsed Transactions*.

The `icst.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 `icst` 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 `icst.cls` to reproduce the typographical look of *EAI Endorsed Transactions*. 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]).

## 2. 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 `\,` before a differential `d`, or `\quad` to separate an equation from its qualifier;
- (iii) follow the *EAI Endorsed Transactions* reference style.

## 3. Getting started

The `icst` 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 at CTAN.

*EAI Endorsed Transactions* are published using a combination of Kp-Fonts and Iwona typefaces. This is achieved by using the `fonts` option as `\documentclass[fonts]{icst}`.

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

★This is an example of a footnote to the title.

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```
\documentclass[fonts]{icst}
%\documentclass[fonts,doublespace]{icst}%For paper submission

\begin{document}

\runningheads{<Initials and Surnames>}{<Short title>}

\title{<Initial caps>}
%\title{<Initial caps>\tnoteref{1}}

\author{<An Author\affil{1}, Someone Else\affil{2}\fnoteref{1},
Perhaps Another\affil{1}>}

\address{<\affilnum{1}First author's address
(in this example it is the same as the third author)\
\affilnum{2}Second author's address>}

%\tnotetext[1]{<Footnote to the title, if needed>}

\fnotetext[1]{Corresponding author. \email{<email address>}}
%Corresponding author is the second author in this example

%\fnotetext[2]{<Text as needed>}

\abstract{<Text>}

\keywords{<List keywords>}

\maketitle

\section{Introduction}
.
.
.
```

**Figure 1.** Example header text

## 4. The article header information

The heading for any file using `icst.cls` is shown in Figure 1.

### 4.1. Remarks

- (i) In `\runningheads` use '*et al.*' if there are four or more authors.
- (ii) Note the use of `\tnoteref{<id num>}` and `"\tnotetext[<idnum>]<Text>"` for setting footnotes to the title

Also note the use of `\fnoteref{<id num>}` and `\fnotetext[<id num>]{<Text>}` for setting footnotes to author names. At least one of these must identify the 'Corresponding author' (as in the example shown in Figure 1)

- (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.
- (v) Keywords are separated by commas.

## 5. The body of the article

### 5.1. Mathematics

`icst.cls` makes the full functionality of  $\mathcal{A}\mathcal{M}\mathcal{S}\mathcal{T}\mathcal{E}\mathcal{X}$  available. We encourage the use of the `align`, `gather` and `multline` environments for displayed

```

\begin{table}\small\sf
\caption{<Table caption>}
\centering
\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

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.

## 5.2. Figures and Tables

`icst.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]. If figures are available in an acceptable format (for example, `.eps`, `.ps`) they will be used but a printed version should always be provided.

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

## 5.3. Footnotes

Note the use of `\footnote{<Text>}` for setting footnotes to the text in the body of the article. Unlike the footnotes in the article header, these footnotes are in the number format<sup>1</sup>.

## 5.4. Cross-referencing

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

<sup>1</sup>This is an example of a footnote to the text in the body of the article.

## 5.5. Appendices

Code appendices as follows.

```

\begin{appendices}
\section{<The first appendix title>}
.
.
.
\subsection{The first subappendix}

\appendix
\section{<The second appendix title>}
.
.
.
\end{appendices}

```

## 5.6. Acknowledgements

An Acknowledgements section is started with `\ack` or `\acks` for *Acknowledgement* or *Acknowledgements*, respectively. It must be placed just before the References.

## 5.7. Bibliography

The *EAI Endorsed Transactions* allows the Vancouver reference style which is also the default style.

Please note that the file `icstnum.bst` (which outputs references in the Vancouver style) is available from the same download page for those authors using  $\text{\BibTeX}$ .

## 5.8. Double Spacing

If you need to double space your document for submission please use the `doublespace` option as shown in the sample layout in Figure 1.

## 6. Support for `icst.cls`

We offer on-line support to participating authors. Please contact us via e-mail at [publications@eai.eu](mailto:publications@eai.eu)

We would welcome any feedback, positive or otherwise, on your experiences of using `icst.cls`.

## 7. Copyright statement

Please be aware that the use of this  $\text{\LaTeX} 2_{\epsilon}$  class file is governed by the following conditions.

### 7.1. Copyright

The Copyright licensed to EAI.

**Acknowledgement.** This class file was developed by Sunrise Setting Ltd, Torquay, Devon, UK. Website: [www.sunrise-setting.co.uk](http://www.sunrise-setting.co.uk)

## References

- [1] KOPKA H. and DALY P.W. (2003) *A Guide to L<sup>A</sup>T<sub>E</sub>X* (Addison-Wesley), 4th ed.
- [2] LAMPORT L. (1994) *L<sup>A</sup>T<sub>E</sub>X: a Document Preparation System* (Addison-Wesley), 2nd ed.
- [3] MITTELBACH F. and GOOSSENS M (2004) *The L<sup>A</sup>T<sub>E</sub>X Companion* (Addison-Wesley), 2nd ed.