

## RESEARCH ARTICLE

**A demonstration of the  $\text{\LaTeX} 2_{\epsilon}$  class file for *Transactions on Emerging Telecommunications Technologies*<sup>†</sup>**

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**ABSTRACT**

This paper describes the use of the  $\text{\LaTeX} 2_{\epsilon}$  `ettauth.cls` class file for setting papers for *Transactions on Emerging Telecommunications Technologies*. Copyright © 2012 John Wiley & Sons, Ltd.

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**1. INTRODUCTION**

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

The `ettauth.cls` class file preserves much of the standard  $\text{\LaTeX} 2_{\epsilon}$  interface so that any document which was produced using the standard  $\text{\LaTeX} 2_{\epsilon}$  article style can easily be converted to work with the `ettauth` 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 `ettauth.cls` to reproduce the typographical look of *Transactions on Emerging Telecommunications Technologies*. However, this paper is not a guide to using  $\text{\LaTeX} 2_{\epsilon}$  and we would refer you to any of the many books available (see, for example, [1, 2, 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  $\text{\TeX}$  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 *Transactions on Emerging Telecommunications Technologies* reference style.

**3. GETTING STARTED**

The `ettauth` class file should run on any standard  $\text{\LaTeX} 2_{\epsilon}$  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 from CTAN.

*Transactions on Emerging Telecommunications Technologies* is published using Times fonts and this is achieved by using the `times` option as

```
\documentclass[times]{ettauth}.
```

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

**4. THE ARTICLE HEADER INFORMATION**

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

**4.1. Remarks**

- (i) In `\runningheads` use ‘*et al.*’ if there are three or more authors.

<sup>†</sup>Please ensure that you use the most up to date class file, available from the ETT Home Page at

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)2161-3915](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2161-3915)

```

\documentclass[times]{ettauth}
%\documentclass[times,doublespace]{ettauth}%For paper submission

\begin{document}

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

\articletype{<Article type>}

\title{<Initial cap, lower case>}

\author{<An Author\affil{1},
Someone Else\affil{2}\corrauth\ and 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>}

\corraddr{<Corresponding author's address (the second author in
this example)>. E-mail: <corresponding author's email address>}

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

\maketitle

\section{Introduction}
.
.
.

```

Figure 1. Example header text.

- (ii) Note the use of `\affil` and `\affilnum` to link names and addresses. The details for the corresponding author should be included in the `\corraddr` 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.

## 5. THE BODY OF THE ARTICLE

### 5.1. Mathematics

`ettauth.cls` makes the full functionality of  $\text{\LaTeX}$  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.

### 5.2. Figures and Tables

`ettauth.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.

```

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

### 5.3. Cross-referencing

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

### 5.4. Acknowledgements

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

### 5.5. Bibliography

The normal commands for producing the reference list are:

```

\begin{thebibliography}{99}
\bibitem{<x-ref label>}
    <Reference details>
.
.
.
\end{thebibliography}

```

where `\bibitem{x-ref label}` corresponds to `\cite{x-ref label}` in the body of the article and {99} is the widest such number expected and determines the width of the number column in the reference list.

Please note that the file `wileyj.bst` is available from the same download page for those authors using  $\BIBTeX$ .

### 5.6. Biographies

Brief biographies appear after the references. Use `\biog` or `\biogs` to set the headings **AUTHOR'S BIOGRAPHY** or **AUTHORS' BIOGRAPHIES** respectively. Individual author names should be set in bold and individual biographies are separated by a `\bigbreak`.

### 5.7. 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 ETTAUTH.CLS

We offer on-line support to participating authors. Please contact us via e-mail at [ettauth-cls@wiley.co.uk](mailto:ettauth-cls@wiley.co.uk).

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

## 7. COPYRIGHT STATEMENT

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

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## ACKNOWLEDGEMENT

This class file was developed by Sunrise Setting Ltd, Paignton, Devon, UK. Website:

[www.sunrise-setting.co.uk](http://www.sunrise-setting.co.uk)

## REFERENCES

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