Computability
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A demonstration of the LaTeX 2ε class file for *Computability*

Kenneth Rogers[1] and Oliver Parton[2]

Abstract

This paper describes the use of the LaTeX 2ε sage-COE.cls class file for setting papers to be submitted to *Computability*, published by IOS Press.

Classification: 03D40, 03D25

Keywords

Class file, LaTeX 2ε, IOS Press, Sage Publications, *Computability*

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Introduction

This document outlines the sage-COE.cls class file, which helps transform articles formatted with various LaTeX 2ε class files into the appropriate format for submission to *Computability*.

The sage-COE.cls class file preserves much of the standard LaTeX 2ε interface so that any document that was produced using the standard LaTeX 2ε article style can easily be converted to work with the sage-COE 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.

The following sections explain how to format your code using sage-COE.cls to replicate the typographical style of *Computability*. However, this document is not a LaTeX 2ε tutorial, and we recommend referring to any of the numerous resources for guidance [1], [2], [3].

Key guidelines

There are three essential guidelines for your code to be followed to ensure accurate typesetting:

(i) limit the use of your own macros;
(ii) do not use explicit horizontal or vertical spacing commands, except in specific accepted scenarios (mostly mathematical), such as `\,` before a differential d, or `\quad` to separate an equation from its qualifier;
(iii) adhere to the journal's reference style.

[1]Lion Shares Laboratory Ltd, UK
[2]Sage Publications Ltd, UK

Corresponding author:
Kenneth Rogers, Lion Shares Laboratory Ltd, Islands Stream, Evergreen, EC1Y 1SP, UK.
Email: kenneth.rogers@lionshares.co.uk

```
\documentclass[sageCOE,times]{sage-COE}

\begin{document}

\runninghead{<Author surnames>}
\articletype{<Article type>}
\title{<Initial capital only>}

\author{<An Author\affilnum{1}\orcid{0000-0000-0000-0000},
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 full postal address>}

\email{<Corresponding author's email address>}

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

\keywords{<List keywords>}

\classification[<classification>]{03D40, 03D25}

\maketitle

\section{Introduction}
.
.
.
```

Figure 1. Example header text.

Setting up

The sage-COE class file is designed to work with any standard LaTeX 2_ε installation. If your setup is missing any required fonts, style files, or packages, you can locate them on the TEX Collection DVDs or download them from CTAN.

Article header details

Figure 1 shows the header for any file using sage-COE.cls. You must include the sageCOE option for *Computability* to achieve the appropriate trim, font and style formatting: `\documentclass[sageCOE,times]{sage-COE}`

Table 1 lists the specifications for the sageCOE option.

Table 1. *Computability* specifications, created using the sageCOE option.

Article element	Specification using sageCOE
Trim size	210 x 280 mm
Font size	10pt
Column format	Single
Reference style	Sage Vancouver (citation numbers with square brackets)

If you encounter any issues using the Times fonts, you can switch to Computer Modern fonts by omitting the Times option.

Comments

(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` and `\email` commands.
(iii) For submitting a double-spaced manuscript, add `doublespace` as an option to the documentclass line.
(iv) The abstract should be able to stand alone, without the need for the main text or bibliography. Therefore, it must not include any citations.
(v) Keywords are separated by commas.
(vi) Insert classification `\classification[<classification title>]{xxxx, xxxxx}`

The body of the article

Mathematics

sage-COE.cls makes the full functionality of $\mathcal{AMS}$TEX 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

sage-COE.cls includes the graphicx package for handling figures.

Figures are called in as follows:

```
\begin{figure}
\centering
\fbox{\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 matter

Following are the macros defined to typeset the end matter headings that may be relevant to your paper.

The commands available are:

```
\section*{Acknowledgements}

To typeset an "Acknowledgements" section.

\section*{Statements and declarations}

\subsection*{Funding}

To typeset a "Funding" section.

\subsection*{Conflicting interests}

To typeset a "Conflicting interests" section.
```

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Statements and declarations

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Conflicting interests

The authors declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

References

Please note that the file SageV.bst is included with the class file for those authors using BibTeX. The file works in a completely standard way, and just needs to include the lines below:

```
%%Vancouver (numbered)
\bibliographystyle{SageV}
\bibliography{<YourBibfile.bib>}
```

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