

Using the Document Class IEEEMB.cls

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Abstract—This article explains how to use a \LaTeX style that produces an article for Proceedings of the Symposium Extra Skills for Young Engineers. Style is a good approximation to the style used in the IEEE Transactions. The article is itself an example of the IEEEMB.cls style in action.

Keywords—Style file, \LaTeX , IEEE Transactions.

I. INTRODUCTION

THE aim of the style file IEEEMB.cls is to allow authors of papers to prepare their papers for publishing in Proceedings of the Symposium Extra Skills for Young Engineers. The style file IEEEMB.cls can be used together with the bibliography style file IEEE.bst.

II. HOW TO USE THE FILE IEEEMB.CLS

This style file has been written so to allow, with very few changes, the formatting of input that is suitable for the \LaTeX article style. First, the IEEEMB.cls style file has to be selected with a command of the form

```
\documentclass[11pt,twocolumn]{IEEEMB}
```

The default font size is 11 points. The default page style has been redefined and is now set by IEEEMB.cls to “empty”.

IEEE Transactions papers do not include author affiliations below or beside the name(s) of the author(s); instead, use the command `\thanks{...}` to list addresses. Note that the `\thanks{..}` command in the title no longer produce marks: the thanks-footnote should therefore be self-contained, with address and name of the author(s).

Footnotes produce a footnote mark as usual.¹

The command “`\PARstart{X}{YYY} ZZZ`” produces a large letter X at the beginning of the paragraph. The string YYY will be automatically changed to capital letters.

The bibliography style file IEEE.bst allows \BIBTeX to include the references from the chosen bibliography

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Note that the “thanks” command does no longer produce footnote marks.

¹The footnote is indicated by a footnote mark

file(s) according to the format required by IEEE Transactions.

Full papers should include the biography of the author. An example of a formatted biography is given at the end of this sample article. The environment is called `biography` and requires base name of Encapsulated PostScript file containing authors picture of size 25 mm \times 32 mm and the name of the person whose biography is presented.

In figure 1 we can see an example for the definition of the title page and of the main commands needed to compile a \LaTeX file with IEEEMB.cls.

```
\documentclass[11pt,twocolumn]{IEEEMB}

\begin{document}

\title{Using the Document Class
      IEEEMB.cls}

\author{Ale\v s \v Casar\thanks{A.
      \v Casar is...}}
\maketitle

\begin{abstract}
This article ...
\end{abstract}

\begin{keywords}
Style file...
\end{keywords}

\section{Introduction}
\PARstart{T}{h}e aim of the style...

\bibliographystyle{IEEE}
\bibliography{bib-file}

\begin{biography}{ales}
{Ale\v s \v Casar}
will process...
\end{biography}

\end{document}
```

Fig. 1. Input used to produce this paper.

A. Additional Changes

Most changes resulting from the use of IEEEMB.cls should be transparent to the user. For instance, captions for figures and tables have been modified. Caption of tables, however, should be defined before the table item.

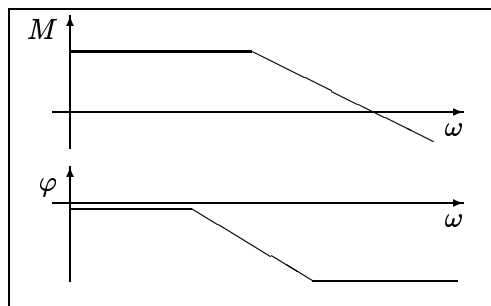


Fig. 2. This is a sample figure. The caption comes after the figure.

TABLE I
THE CAPTION COMES BEFORE THE TABLE.

	title	odd	even
onesided	left	left	left
twosided	left	right	left

A.1 Environments

The environments for theorem, propositions, lemmas, etc. can be defined with the usual \LaTeX [2], [3] command `\newtheorem{..}{..}`. The proof environment is already defined.

Theorem 1 (Theorem name) Consider the system

$$\begin{aligned} \dot{x} &= A.x + B.u \\ y &= C.x + D.u \end{aligned} \quad (1)$$

If A is stable, then the pair $\{A, B\}$ is stabilizable. Moreover, this holds for any B .

Proof: The proof is trivial. ■

III. CONCLUSIONS

This sample article has presented the style file IEEEMB.cls This file can be especially useful in preparing articles for submission and for preparing the final version to be sent to the IEEE publishers.

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REFERENCES

- [1] Vladimir Batagelj and Bojan Golli, *T_EX Povabilo v T_EX, E_T_EX, B_IB_T_EX, P_iC_T_EX*, Učbeniki in priročniki. Društvo matematikov, fizikov in astronomov Slovenije, Ljubljana, Slovenia, October 1990. In Slovene.
- [2] Leslie Lamport, *A Document Preparation System: E_T_EX, User's Guide and Reference Manual*, Addison Wesley Publishing Company, 1986.
- [3] Helmut Kopka, *E_T_EX, eine Einführung*, Addison-Wesley, 1989.
- [4] D.K. Knuth, *The T_EXbook*, Addison-Wesley, 1989.
- [5] D.E. Knuth, *The METAFONTbook*, Addison Wesley Publishing Company, 1986.
- [6] Gerry Murray, *Using the Document Class IEEEtran.cls*.



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will be reproduced and binded together in printing works to form a book for all to admire.