

The `piers.sty` Style File (version 1.0)

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1 Introduction

These instructions explain how to use the `piers.sty` \LaTeX in order to generate a \LaTeX document ready to be submitted to PIERS (Progress in Electromagnetics Research Symposium). The various new commands provided by `piers.sty` are intended to properly organize the necessary information like title, authors, authors information, topic number, *etc*, in preparation for submission.

Since this is the \LaTeX first version of such a package, any comments, remarks, suggestions are very welcome!

Important: some commands are optional, whereas others are mandatory. If these latter are not used, the compilation will run into errors. An exhaustive list of commands and their properties is proposed in Section 3, and a sample \LaTeX is given at the end of this documentation, in Section 4.

2 Command explanation

The `piers.sty` \LaTeX should be used as a package with the basic `article` class \LaTeX , so that the first two lines of the \LaTeX submitted should be:

1. `\documentclass article`
2. `\usepackage piers`
3. `\begin document`

In addition, this also means that tables, figures, equations, *etc*, should be typeset as in a normal article.

2.1 Entering a title

A title for the abstract is simply produced by the command `\title` followed by `\maketitle`, as follows:

4. `\title`
5. `\maketitle`

2.2 Entering the authors

Entering an author means giving all the necessary information related to this person: the name, title (Prof., Dr., Mrs., Mr., *etc*), affiliation, complete address, *etc*. Two authors with the same

affiliation can be defined simultaneously, but only if a third author with a different affiliation does not appear in between the author sequence.

To properly organize this information, a set of nine commands has been defined. Note that some are optional, but if possible, all fields should be completed to provide the most complete information.

The nine commands are the following:

- `\author{}`: author's name. This can be a list of names if consecutive authors share the same affiliation, address, *etc.* The format for author entry should contain the initial of the first name, possibly the initial of the middle name, and the full last name, in that order. The authors' name should be separated by a comma, with the keyword *and* before the last author.
- `\authortitle{}`: author's title (Prof., Dr., Mrs., Mr., *etc.*). If a list of authors has been specified in `\author{}`, a list of corresponding titles should be specified here (optional).
- `\address{}`: concerns the street, and should be as detailed as possible, since some information may be sent to the authors by regular mail. For multi-line entries, the `\\` command may be used.
- `\city{}`
- `\stateprov{}`: state or province information (optional).
- `\postalcode{}`: postal or zip code (optional).
- `\country{}`
- `\phone{}`: should be complete, including country number (optional).
- `\fax{}`: same guidelines as for `\phone{}` (optional).
- `\email{}` (optional)
- `\misc{}`: this field can contain any information, comment, requirement the author want to submit to the PIERS committee (optional).

For each author (or authors if multiple names are included in `\author{}`), these commands should be followed by the `\makeauthor` command. Notice that the required fields will appear in the abstract exactly as entered, including white spaces.

6. `\author { }`
7. `\authortitle { }`
8. `\affiliation { }`
9. `\address { }`
10. `\city { }`
11. `\stateprov { }`
12. `\postalcode { }`

13. `\country { }`
14. `\phone { }`
15. `\fax { }`
16. `\email { }`
17. `\misc { }`
18. `\makeauthor`

2.3 Entering other miscellaneous information

A set of five other commands has been defined to properly organize the paper in the symposium. These are:

- `\presentedby{}`: name of author who will presented the paper at the symposium (optional). If nothing is specified, the first author of the paper will be assumed to be presenting.
- `\mailto{}`: name of the author to whom correspondence should be sent (optional). If nothing is specified, the first author of the paper will be assumed to be the corresponding author.
- `\topic{}`: number or title of the topic to which the session belongs to (optional). A list of numbers and titles can be found in the related call for papers (<http://piers.org/piers2k2/index.html>).
- `\chairman{}`: name of the session organizer (optional).
- `\presentation{}`: type of presentation preferred, to choose between oral and poster (optional). If nothing is specified, and oral preference will be assumed.

19. `\presentedby { }`
20. `\mailto { }`
21. `\topic { }`
22. `\chairman { }`
23. `\presentation { }`

2.4 Writing the abstract

The actual text of the abstract, the figures (if any) and the references (if any) should be included in between the commands `\begin{abstract}` and `\end{abstract}`. Hence, normally, no command should be placed after the `\end{abstract}` statement, except for the `\end{document}`.

24. `\begin{abstract}`
25. `%enter the abstract + figures + references here.`
26. `\end{abstract}`
27. `\end{document}`

3 Summary of all commands

Command	Status	Comments
<code>\title{}</code>	[<i>required</i>]	
<code>\maketitle{}</code>	[<i>required</i>]	
<code>\author{}</code>	[<i>required</i>]	
<code>\authortitle{}</code>	[<i>optional</i>]	
<code>\affiliation{}</code>	[<i>required</i>]	
<code>\address{}</code>	[<i>required</i>]	
<code>\city{}</code>	[<i>required</i>]	
<code>\stateprov{}</code>	[<i>optional</i>]	
<code>\postalcode{}</code>	[<i>optional</i>]	
<code>\country{}</code>	[<i>required</i>]	
<code>\phone{}</code>	[<i>optional</i>]	
<code>\fax{}</code>	[<i>optional</i>]	
<code>\email{}</code>	[<i>optional</i>]	
<code>\misc{}</code>	[<i>optional</i>]	
<code>\makeauthor{}</code>	[<i>required</i>]	
<code>\presentedby{}</code>	[<i>optional</i>]	
<code>\mailto</code>	[<i>optional</i>]	
<code>\topic{}</code>	[<i>optional</i>]	(refer to the call for papers)
<code>\chairman{}</code>	[<i>optional</i>]	(if known)
<code>\presentation{}</code>	[<i>optional</i>]	(oral/poster)
<code>\begin{abstract}</code>	[<i>required</i>]	
<code>\end{abstract}</code>	[<i>required</i>]	

4 Sample file

```

%=====
\documentclass{article}          % fundamental class file is 'article'.
\usepackage{piers}              % use the file 'piers.sty'.

\begin{document}

%=== Title of the presentation =====
\title{Example of an Abstract submitted to PIERS}
\maketitle
%-----

%=== List of authors (in order) =====
% (please fill all the fields, if possible)
%
```

```

%-- Author(s) for the first affiliation ---
\author      {J. A. Doe and J. B. Doe}
\authortitle {Prof., Dr.}
\affiliation {Electrical Engineering Department, MIT}
\address     {77 Massachusetts Ave.}
\city        {Cambridge}
\stateprov   {MA}
\postalcode  {02139}
\country     {U.S.A.}
\phone       {(617) 253-1000}
\fax         {(617) 253-1000}
\email       {JADoe@mit.edu, JBDoe@mit.edu}
\misc        {}
\makeauthor
%-----

```

```

%-- Author(s) for the second affiliation ---
\author      {J. C. Doe}
\authortitle {Dr.}
\affiliation {Physics Department MIT}
\address     {77 Massachusetts Ave.}
\city        {Cambridge}
\stateprov   {MA}
\postalcode  {02139}
\country     {U.S.A.}
\phone       {(617) 253-1000}
\fax         {(617) 253-1000}
\email       {JCDoe@mit.edu}
\misc        {}
\makeauthor
%-----

```

```

%=== Miscalleneous information =====

```

```

% (note: it does not matter if this information is displayed on
%      a second page, as long as the abstract+figures+references fit on a single page).

```

```

\presentedby {J. A. Doe}
\mailto      {J. A. Doe}
\topic       {Antenna theory and radiation}
\chairman    { }
\presentation {oral}
%-----

```

```

%===== ABSTRACT =====

```

```

% Brief instructions: must be in English, no less than 250 words,
% must fit on one page (including the figure(s) and
% reference(s)).

```

```
\begin{abstract}
```

Recent developments in the technology of microstrip circuits are calling for ‘quasi-planar’ antennas in multilayered environments, being essentially planar or printed but including vertical metallizations and connections.

This new degree of freedom provides a better control on the electrical characteristics of the devices and allows the development of more versatile designs...

```
\end{abstract}
```

```
%-----
```

```
\end{document}
```