

The package `procIAGssymp`

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1 Introduction and warnings

The package `procIAGssymp.sty` has been designed to help the formatting of a paper with the style of the proceedings of symposia sponsored by the International Association of Geodesy (IAG).

I have not recently checked the instruction from the publisher of the proceedings of IAG-sponsored-symposia. They probably changed since the time this code has been prepared. I presume that official more refined and up-to-date class or style files are now available from the publisher. This package is therefore not as useful as it was at the time of its first publication, but it is perhaps still convenient for some user.

The release of this package on CTAN is a personal initiative of its author. The mention of IAG and of the publisher of the proceedings of the symposia sponsored by IAG does not imply any involvement of these entities in this initiative.

2 The use of `procIAGssymp.sty`

2.1 General informations

Some of the informations of these section are repeated in the test article that is distributed with the package.

The recommended class (with option) is: `[a4paper,twocolumn,10pt]{article}`.

2.2 Top-matter

`\title` The title and the (list of) author(s) must be prepared with `\title{ . . . }` and
`\author` `\author{ . . . }` and they will be printed by `\maketitle`. If there are several
`\and` authors, their names must be separated by `\and`. The authors that share the same
`\thanks` address must be listed consecutively and must be followed by `\thanks{ . . . }`
(with the address as argument). The use of `\thanks{ . . . }` referred to the title
is not appropriate because this command has been redefined.

2.3 Sectioning

`\section` The use of `\section{ . . . }` and `\subsection{ . . . }` can be done as in any
`\subsection` L^AT_EX paper. These commands have been redefined so that they produce the

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first level and second level headers in the proper format. All the other sectioning commands have been redefined with a coherent style. The command `\section*{References}` can be used to start the reference list.

2.4 Technicalities about the format of the top-matter

The main structure of the topmatter is governed by `\@maketitle` which is properly redefined. The command `\thanks` has been redefined to print the authors' address immediately after the authors' names. The new form of this command makes it unsuitable to put a note to the title.

3 Acknowledgment

People listed here after contributed with suggestions. Some of them also provided fragments of code. Claretta Carrara, Nico Snew, Claudio Beccari.

4 Code of `procIAGssymp.sty`

```
1 \ProvidesPackage{procIAGssymp}[2024/04/08]
```

`\@maketitle` The following redefinition of `\@maketitle` is quite simplified with respect to the standard one. The data is not printed; the title is not centered and it is in sans-serif style; the author is no longer in tabular environment; the author and its address are left justified.

```
2 \def\@maketitle{%
3   {\LARGE\sffamily\bfseries\@title}
4   \vskip 6mm%
5   {\lineskip .5em%
6     {\raggedright\@author}}
7   \vskip 6mm%
8   \par
9   \vskip 1.5em}
```

The proper behaviour of the command `\and` in relation with `\thanks` require the new conditional named `\ifafterthanks`. It will be used in the redefinition of `\and`.

```
10 \newif\ifafterthanks \afterthanksfalse
```

`\thanks` The macro `\thanks` must be redefined to print the address immediately after the author(s) it refers to.

```
11 \renewcommand{\thanks}[1]{\ #1 \vskip6mm \global\afterthankstrue}
```

`\and` The macro `\and` must be redefined.

```
12 \renewcommand{\and}{\ifafterthanks\relax \else{\unskip,}\ \fi
13 \global\afterthanksfalse}
```

`\section` The command `\section` is redefined to use proper shape and proper spacing.

```
14 \renewcommand\section{\@startsection%
15 {section}{1}{0mm}{-3mm}{2mm}%
16 {\fontsize{10.95}{13.6}\selectfont\sffamily\bfseries}}%
```

`\subsection` The command `\subsection` is redefined to use proper shape and proper spacing.

```
17 \renewcommand\subsection{\@startsection%
18 {subsection}{2}{0mm}{-3mm}{2mm}%
19 {\normalfont\sffamily\bfseries}}%
```

The first and second order sectioning are generally used. The lower lever sectioning commands are redefined for compatibiliy.

```
20 \renewcommand\subsubsection{\@startsection%
21 {subsubsection}{3}{0mm}{-2mm}{2mm}%
22 {\normalfont\normalsize\sffamily\bfseries}}%
23 \renewcommand\paragraph{\@startsection%
24 {paragraph}{4}{0mm}{-2mm}{-1em}%
25 {\normalfont\normalsize\sffamily\bfseries}} %
26 \renewcommand\subparagraph{\@startsection%
27 {subparagraph}{5}{\parindent}{-2mm}{-1em}%
28 {\normalfont\normalsize\sffamily\bfseries}}%
```

It is also necessary to set some dimensions.

```
29 \textheight224mm
30 \textwidth156mm
31 \columnsep8mm
32 \topmargin0mm
```

`\linea` The new command `\linea`, with Italian name `-:)`, can be used to put some space and a rule after the abstract.

```
33 \newcommand{\linea}{\vskip1mm\noindent\rule{74mm}{.5pt}}
```

5 Code of TESTprocIAGssymp.tex

The code of TESTprocIAGssymp.tex is presented here after.

```
34 \documentclass[a4paper,twocolumn,10pt]{article} %
35 \usepackage{procIAGssymp}
36 \title{The package procIAGssymp.sty for the formatting
37       of a paper with the style of the proceedings of
38       symposia sponsored by IAG}
39 \author{B.Benciolini\thanks{contact: benciolinibattista al gmail dot com}
40 \and No Second Author \and No Third Author\thanks{No-Where Institute}}
41 \hbadness=10000 \vbadness=10000
42 \begin{document}
43 \maketitle
44 \paragraph{Abstract} The use of the package \texttt{procIAGssymp.sty}
45 is explained and tested in this short paper.
46 \linea
47 \section{Introduction}
48 The package \texttt{procIAGssymp.sty} provides some (re-)definitions
49 of \LaTeX\ commands. The main pourpouse of the present text is to give
50 an example of the use of the package \texttt{procIAGssymp.sty}.
51 The content is just an essential explenation of the use of the same package.
52 \par\noindent Please refer to the file \texttt{procIAGssymp.pdf} for
53 a complete documentation and to \texttt{README.txt} for general
54 introductory information.
55 \section{Suggestions for the user}
56 \subsection{General page lay-out}
```

57 The general lay-out of the pages is controlled by some assignment
58 made by `\texttt{procIAGssymp.sty}` and by the use of the class
59 `\texttt{article}` that must be loaded with the proper options, i.e.
60 `\verb+[a4paper,twocolumn,10pt]+`.
61 `\subsection{Top-matter}`
62 The title and the author(s) must be prepared with
63 `\verb+\title{ . . .}+` and `\verb+\author{ . . .}+` and they will be
64 printed by `\verb+\maketitle+`.
65 If there are several authors, their names must be separated by `\verb+\and+`.
66 The authors that share the same address must be listed consecutively and must
67 be followed by `\verb+\thanks{ . . .}+` (with the address as argument).
68 The use of `\verb+\thanks{ . . .}+` referred to the title is not appropriate
69 because this command has been redefined.
70 `\subsection{More about the format of the top-matter}`
71 The main structure of the topmatter is governed by `\verb+\@maketitle+`
72 which is properly redefined. `\par\noindent`
73 The command `\verb+\thanks+` has been redefined to print the
74 authors' address immediately after the authors' names.
75 The new form of this command makes it unsuitable
76 to put a note to the title.
77 `\subsection{Sectioning}`
78 The use of `\verb+\section{ . . .}+` and `\verb+\subsection{ . . .}+`
79 can be done as in any `\LaTeX` paper.
80 These commands have been redefined so that they
81 produce the first level and second level headers in the proper format. All
82 the other sectioning commands have been redefined with a coherent style. The
83 command `\verb+\section*{References}+` can be used to start the reference list.
84 One of the following sections is just a test of the various sectioning commands.
85 `\section{Test of sectioning (1st level)}`
86 `\subsection{Test of sectioning (2nd level)}`
87 `\subsubsection{Test of sectioning (3rd level)}`
88 This is just an example of the use and abuse
89 of `\verb+\section+`, `\verb+\subsection+` and
90 `\verb+\subsubsection+`. We can also test `\verb+\paragraph+` and
91 `\verb+\subparagraph+`.
92 `\paragraph{Paragraph}` This is a paragraph, headed by `\verb+\paragraph+`.
93 `\subparagraph{Subparagraph}` This is a sub paragraph. And the section
94 ends here.
95 `\section{History}`
96 `\begin{description}`
97 `\item[2000 ... 2002:] development, test, in-house use,`
98 `\item[2002] first released in CTAN,`
99 `\item[2022-05-05] general revision,`
100 `changes in the comments and documentation, new release in CTAN,`
101 `\item[2024-04-08] general revision, changes in the documentation,`
102 `all stuff collected in \texttt{procIAGssymp.dtx},`
103 `new release in CTAN.`
104 `\end{description}`
105 `\section{Recommendation}`
106 I recommend all the users of the package `\texttt{procIAGssymp.sty}`
107 to send me any comment about it.
108 `\end{document}`
109 `\endinput`
