The amsaddr class[*]

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January 30, 2007

Abstract

This package is intended to be used with the amsart documentclass only. It lets you move the authors' affiliations either just below the authors' names on the front page or as footnotes on the first page. The email addresses are always listed as a footnote on the front page.

Contents

1 License

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2 Usage

To use this package, you need to include the directive \usepackage{amsaddr} in your .tex file. Alternatively, you may also use it with the foot option \usepackage[foot]{amsaddr}. When using the foot option, the adresses are put as footnotes on the first page of the document.

A typical usage looks like the following

```
\author{author one and author two}
\address{common address of authors one and two}

\author{author three}
\address{author three address}

\email{list of emails}
```

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[*]This document corresponds to amsaddr v1.0, dated 2006/12/12.

If `amsaddr` is used without the `foot` option, the addresses declared with the `\address` command are printed just below the authors'names declared with the preceeding `\author` command. The emails appear as a footnote like this

E-mail addresses: `email one`, `email two`, and so on

If the option `foot` was passed to the package, you may consider numbering authors' names so that you can use numbered footnotes for the affiliations.

```
\author{author one$^1$ and author two$^1$}
\address{$^1$common address of authors one and two}

\author{author three$^2$}
\address{$^2$author three address}

\email{list of emails}
```

As in standard `amsart` documents, an option can be passed to the `\author` command to specify the replacement for the author's name on the running headers.

```
\author[header name of the author]{author name}
```

3   Implementation

```
1   \def\filename{amsaddr}
2   \def\fileversion{v1.0}
3   \def\filedate{2006/12/12}
4   \ifx\protected@edef\@undefined
5       \let\protected@edef\edef
6   \fi
```

The `foot` option enables to move the affiliation related material to the bottom of the fisrt page as footnotes.

```
7  \newif\if@footaddr
8  \DeclareOption{foot}{\@footaddrtrue}
9  \ProcessOptions\relax
```

`\author` The `\author` macro can be used the same way as in other `amsart` documents. The variable `g@author` is used to count the total number of authors.

```
10  \newcounter{g@author}
11  \setcounter{g@author}{0}
12  \renewcommand{\author}[2][]{%
13     \stepcounter{g@author}
14     \ifx\@empty\authors
15       \gdef\authors{#2}%
16     \else
17       \g@addto@macro\authors{\and#2}%
18     \fi
19     \g@addto@macro\addresses{\author{#2}}%
20     \@ifnotempty{#1}{%
21       \ifx\@empty\shortauthors
22         \gdef\shortauthors{#1}%
23       \else
24         \g@addto@macro\shortauthors{\and#1}%
25       \fi
26    }%
27  }
```

\email The \email command is used to specify the different authors. The email addresses can be specified in a unique command or using separate invocations of the command.

```
28 \let\emails\@empty
29 \renewcommand{\email}[2][]{
30   \ifx\@empty\emails
31     \gdef\emails{\mbox{#2}}
32   \else
33     \g@addto@macro\emails{,\space\mbox{#2}}
34   \fi
35 }
```

Process \author and \address macros

```
36 \def\@set@authors@addresses{\par
37   \skip@30\p@
38   \centering
39   \begingroup
40   \def\author##1{\par\vskip\skip@\MakeUppercase{##1}}%
41   \def\\{\protect\linebreak}%
42   \centering
43   \def\address##1##2{\par\addvspace\bigskipamount%
44     {\itshape\ignorespaces##2}%
45   }%
46   \def\email##1##2{%
47     \@ifnotempty{##2}{, \ignorespaces{\ttfamily##2}}}%
48   \def\curraddr##1##2{}%
49   \def\urladdr##1##2{}%
50   \addresses
51   \endgroup
52 }
```

\@setfoot@addresses The \@setfoot@addresses macro is used to print the addresses as footnotes. This macro is called when the foot option is passed to the package.

```
53 \def\@setfoot@addresses{
54   \def\author##1{}%
55   \def\\{\unskip, \ignorespaces}%
56   \newif\if@firstaddr
57   \@firstaddrtrue
58   \def\address##1##2{%
59     \if@firstaddr\@firstaddrfalse\else\par\fi
60     \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
61     {\scshape\ignorespaces##2}%
62   }%
63   \def\email##1##2{}%
64   \def\curraddr##1##2{}%
65   \def\urladdr##1##2{}%
66   \addresses
67 }
```

\@setaddresses The \@setaddresses macro is used to process the addresses when they are to appear just below the authors' names on the front page.

```
68 \def\@setaddresses{\par
69   \nobreak \begingroup
70   \def\author##1{\nobreak\addvspace\bigskipamount}%
71   \def\\{\unskip, \ignorespaces}%
72   \interlinepenalty\@M
73   \def\address##1##2{}%
74   \def\email##1##2{}%
```

```
75   \def\curraddr##1##2{\begingroup
76     \@ifnotempty{##2}{\nobreak\indent{\itshape Current address}%
77       \@ifnotempty{##1}{, \ignorespaces##1\unskip}\/:\space
78       ##2\par}\endgroup}%
79   \def\urladdr##1##2{\begingroup
80     \@ifnotempty{##2}{\nobreak\indent{\itshape URL}%
81       \@ifnotempty{##1}{, \ignorespaces##1\unskip}\/:\space
82       \ttfamily##2\par}\endgroup}%
83   \addresses
84   \endgroup
85 }
```

\@setemails   The `\@setemails` macro is called by the `\maketitle` command to print the email addresses.

```
86 \def\@setemails{%
87   \ifnum\theg@author > 1
88     \mbox{{\itshape E-mail addresses}:\space}{\ttfamily\emails}.
89   \else
90     \mbox{{\itshape\space E-mail \space address}:\space}{\ttfamily\emails}.
91   \fi%
92 }
```

\@maketitle   The `\@maketitle` macro is used to replace the standard `\makefile` command. Before issuing this command, no authors, affiliations, nor emails are printed.

```
 93 \def\@maketitle{%
 94   \normalfont\normalsize
 95   \let\@makefnmark\relax  \let\@thefnmark\relax
 96   \if@footaddr\@footnotetext{\@setfoot@addresses}\fi
 97   \ifx\@empty\emails\else \@footnotetext{\@setemails}\fi
 98   \ifx\@empty\@date\else \@footnotetext{\@setdate}\fi
 99   \ifx\@empty\@subjclass\else \@footnotetext{\@setsubjclass}\fi
100   \ifx\@empty\@keywords\else \@footnotetext{\@setkeywords}\fi
101   \ifx\@empty\thankses\else \@footnotetext{%
102     \def\par{\let\par\@par}\@setthanks}\fi
103   \@mkboth{\@nx\shortauthors}{\@nx\shorttitle}%
104   \global\topskip42\p@\relax % 5.5pc   "    "    "      "        "
105   \@settitle
106   \if@footaddr\ifx\@empty\authors \else \@setauthors \fi
107   \else%
108       \ifx\@empty\authors \else \@set@authors@addresses \fi
109   \fi
110   \ifx\@empty\@dedicatory
111   \else
112     \baselineskip18\p@
113     \vtop{\centering{\footnotesize\itshape\@dedicatory\@@par}%
114       \global\dimen@i\prevdepth}\prevdepth\dimen@i
115   \fi
116   \@setabstract
117   \normalsize
118   \if@titlepage
119     \newpage
120   \else
121     \dimen@34\p@ \advance\dimen@-\baselineskip
122     \vskip\dimen@\relax
123   \fi
124   \let\addresses\relax
125   \let\@setfoot@addresses\relax
126 } % end \@maketitle
```

In `amsart` documents, affiliations are normally printed by the `\enddoc@text` command . To avoid a double printing of the considered material, the `\enddoc@text` macro has to be redefined.

```
127 \def\enddoc@text{
128   \ifx\@empty\addresses\else \@setaddresses\fi
129 }
```