

The `amsaddr` class*

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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.

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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 addresses 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}
```

*This document corresponds to `amsaddr` v1.2, dated 2022/09/10.

```

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

\email{list of emails}

```

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 preceding `\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 first 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 \begin@group
40 \def\author##1{\par\vskip\skip@\MakeUppercase{##1}}%
41 \def\{\{\protect\linebreak}\}%
42 \centering
43 \def\address##1##2{\par\advspace\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 \end@group
52 \par
53 }

```

`\@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.

```

54 \def\@setfoot@addresses{
55 \def\author##1{}%
56 \def\{\{\unskip, \ignorespaces}\}%
57 \newif\if@firstaddr
58 \@firstaddrtrue
59 \def\address##1##2{%
60 \if@firstaddr\@firstaddrfalse\else\par\fi
61 \@ifnotempty{##1}{(\ignorespaces##1\unskip) }%
62 {\scshape\ignorespaces##2}}%
63 }%
64 \def\email##1##2{%
65 \def\curraddr##1##2}%
66 \def\urladdr##1##2}%
67 \addresses
68 }

```

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

```

69 \def\@setaddresses{\par
70 \nobreak \begingroup
71 \def\author##1{\nobreak\advspace\bigskipamount}%
72 \def\{\{ \unskip, \ignorespaces}%
73 \interlinepenalty\@M
74 \def\address##1##2{\}%
75 \def\email##1##2{\}%
76 \def\curraddr##1##2{\begingroup
77 \ifnotempty{##2}{\nobreak\indent{\itshape Current address}%
78 \ifnotempty{##1}{, \ignorespaces##1\unskip}\:\space
79 ##2\par}\endgroup}%
80 \def\urladdr##1##2{\begingroup
81 \ifnotempty{##2}{\nobreak\indent{\itshape URL}%
82 \ifnotempty{##1}{, \ignorespaces##1\unskip}\:\space
83 \ttfamily##2\par}\endgroup}%
84 \addresses
85 \endgroup
86 }

```

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

```

87 \def\@setemails{%
88 \ifnum\theg@author > 1
89 \mbox{\{ \itshape E-mail addresses}\:\space}{\ttfamily\emails}.
90 \else
91 \mbox{\{ \itshape E-mail address}\:\space}{\ttfamily\emails}.
92 \fi%
93 }

```

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

```

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

```

```

119 \if@titlepage
120   \newpage
121 \else
122   \dimen@34\p@ \advance\dimen@-\baselineskip
123   \vskip\dimen@\relax
124 \fi
125 \let\addresses\relax
126 \let\@setfoot@addresses\relax
127 } % 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.

```

128 \def\enddoc@text{
129   \ifx\@empty\addresses\else \@setaddresses\fi
130 }

```

Change History

v1.0		v1.2
General: Initial version 1	
v1.1		General: Fix error with
General: Fix space alignment 1	dedicatory
	 1