The \texttt{amsaddr} class*

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Abstract

This package is intended to be used with the \texttt{amsart} document class 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 \texttt{\usepackage{amsaddr}} in your \texttt{.tex} file. Alternatively, you may also use it with the \texttt{foot} option \texttt{\usepackage[foot]{amsaddr}}. When using the \texttt{foot} option, the addresses are put as footnotes on the first page of the document.

A typical usage looks like the following

\texttt{\author{author one and author two}}
\texttt{\address{common address of authors one and two}}
\texttt{\author{author three}}

*This document corresponds to \texttt{amsaddr} v1.1, dated 2013/04/02.
If \texttt{amsaddr} is used without the \texttt{foot} option, the addresses declared with the \texttt{address} command are printed just below the authors’ names declared with the preceding \texttt{author} command. The emails appear as a footnote like this:

\begin{quote}
\textit{E-mail addresses:} email one, email two, and so on
\end{quote}

If the option \texttt{foot} was passed to the package, you may consider numbering authors’ names so that you can use numbered footnotes for the affiliations.

\begin{verbatim}
\author{author one\textsuperscript{1} and author two\textsuperscript{1}}
\address{$^1$common address of authors one and two}
\author{author three\textsuperscript{2}}
\address{$^2$author three address}
\email{list of emails}
\end{verbatim}

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

\begin{verbatim}
\author[header name of the author]{author name}
\end{verbatim}

\section{Implementation}

\begin{verbatim}
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
7 \newif\if@footaddr
8 \DeclareOption{foot}{\@footaddrtrue}
9 \ProcessOptions\relax
\author
\end{verbatim}

The \texttt{foot} option enables to move the affiliation related material to the bottom of the first page as footnotes.

\begin{verbatim}
10 \newcounter{g@author}
11 \setcounter{g@author}{0}
12 \renewcommand{\author}{\[1]{% %
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
\end{verbatim}
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.

\let\emails\@empty
\renewcommand{\email}[2][]{
    \ifx\@empty\emails
        \gdef\emails{\mbox{#2}}
    \else
        \g@addto@macro\emails{, \mbox{#2}}
    \fi
}

Process \author and \address macros
\def\@set@authors@addresses{
    \par
    \skip@30\p@
    \centering
    \begingroup
    \def\author##1{\par\vskip\skip@MakeUppercase{##1}}%
    \def\\{
    \centering
    \def\address##1##2{\par\addvspace\bigskipamount
        \itshape\ignorespaces##2}%
    \def\email##1##2{\@ifnotempty{##2}{, \ignorespaces\ttfamily##2}}%
    \def\curraddr##1##2{}
    \def\urladdr##1##2{}
    \addresses
    \endgroup
}

\@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.
\def\@setfoot@addresses{
    \def\author##1{}
    \def\\{
    \def\address##1##2{\if\@firstaddr\@firstaddrfalse\else\par\fi
        \@ifnotempty{##1}{(\ignorespaces\ttfamily##1\unskip) }%
    \def\email##1##2{}
    \def\curraddr##1##2{}
    \def\urladdr##1##2{}
    \addresses
}

\@setaddresses The \@setaddresses macro is used to process the addresses when they are to appear just below the authors’ names on the front page.
\def\@setaddresses{\par
The \@setemails macro is called by the \maketitle command to print the email addresses.
\def\@setemails{%  
\ifnum\theg@author > 1  
mbox{\itshape E-mail addresses}: \ttfamily\emails}.  
\else  
mbox{\itshape E-mail address}: \ttfamily\emails}.  
\fi%
}

The \maketitle macro is used to replace the standard \makefile command. Before issuing this command, no authors, affiliations, nor emails are printed.
\def\maketitle{%  
\normalfont\normalsize  
\let\@makefnmark\relax \let\@thefnmark\relax  
\if@footaddr\@footnotetext{\@setfoot@addresses}\fi  
\ifx\@empty\emails\else \@footnotetext{\@setemails}\fi  
\ifx\@empty\@date\else \@footnotetext{\@setdate}\fi  
\ifx\@empty\@subjclass\else \@footnotetext{\@setsubjclass}\fi  
\ifx\@empty\@keywords\else \@footnotetext{\@setkeywords}\fi  
\ifx\@empty\thankses\else \@footnotetext{\@setthanks}\fi  
\@mkboth{\@nx\shortauthors}{\@nx\shorttitle}  
\global\topskip42\p@elax % 5.5pc “ ”  
\@settitle  
@iffootaddr\ifx\empty\authors \else \@setauthors \fi  
\else\fi  
\ifx\empty\authors \else \@setauthors\addresses \fi  
\fi  
\if\empty\@dedicatory  
\else  
\baselineskip18\p@  
\vtop{\centering\@footnotesize\itshape\@dedicatory@par}  
\global\dimen0\prevdepth\prevdepth\dimen0  
\fi  
\@setabstract  
\normalsize  
\if\empty\titlepage \else \@newpage \fi  
\else}
In *amsart* documents, affiliations are normally printed by the \texttt{\enddoc@text} command. To avoid a double printing of the considered material, the \texttt{\enddoc@text} macro has to be redefined.

\begin{verbatim}
def\enddoc@text{
  \ifx\@empty\addresses\else \@setaddresses\fi
}
\end{verbatim}