The kaupaper package*

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1 Introduction

Fun.

2 Usage

Do not load the package without options. (TODO)

3 Implementation

```
\RequirePackage{xkeyval}

\define@cmdkeys[kua]{paper}[kua@]{author,title,subtitle,reference,email,refstr,vanity,subdelim
\setkeys[kua]{paper}{refstr={Reprinted from}}

\ProcessOptionsX[kua]<paper>

\RequirePackage{kauparts}
\RequirePackage{ifthen}
\RequirePackage{tikz}

\RequirePackage{ragged2e}
\RequirePackage{hyphenat}

\newcounter{kua@section}
\newcounter{kua@equation}
\newcounter{kua@figure}
\newcounter{kua@table}

\newcounter{kua@paper}

\providecommand\thepaper{}
\providecommand\thepapertitle{}

\newcommand\kua@warning\relax
```

*This document corresponds to kaupaper v1.1, dated 2011/05/06.

```
\newcommand\kua@dowarn{\gdef\kua@warning{\@latex@warning@no@line{List data created from the ka
\AtEndDocument{\kua@warning}

\newcommand\kua@listof[4]{%
  \IfFileExists{\jobname.#1}%
    {% check whether empty file
      \newread\reader%
      \openin\reader\jobname.#1%
      \read\reader to \readmacro%
      \ifeof\reader%
        \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
        \@starttoc{#1}%
        %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
        \kua@dowarn%
      \else% file not empty -> create list
        #3\@starttoc{#1}#4%
      \fi%
    }%
    {% file does not exist
      \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
      \@starttoc{#1}%
      %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
      \kua@dowarn%
    }%
}
```

\listofpapers

```
\newcommand\listofpapers{%
  \section*{List of Appended Papers}%
  \addcontentsline{toc}{section}{List of Appended Papers}%
  \kua@listof{pap}{appended papers}{%
    \begin{enumerate}%
    \renewcommand\theenumi{\textbf{\Roman{enumi}}}%
  }{\end{enumerate}}%
  \subsection*{Comments on my Participation}
  \kua@listof{pcp}{participation in appended papers}{}{}%
}

\newcommand\l@paper[2]{%
  \item #1%
}

\newcommand\listofsummaries{%
  \kua@listof{sum}{paper summaries}{}{}%
}

\newcommand\l@summary[2]{%
  #1\par%
}

\newcommand\l@limit[2]{%
  %\paragraph{Limitations.}
  #1%
}
```

```
78
79 \newcommand\l@participation[2]{%
80   #1%
81 }
82
83 \newcommand\papercover{%
84   \begin{tikzpicture}[remember picture,overlay]%
85     \path (current page.center)%
86       node%
87         [ node distance=\baselineskip%
88         , text width=\textwidth%
89         , text centered%
90         ] (refstr) {\kua@refstr};%
91       \ifthenelse{\equal{\kua@subtitle}{}}{%
92         \node%
93           [ node distance=1.5\baselineskip%
94           , above=of refstr%
95           , text width=\textwidth%
96           , text centered%
97           , font=\LARGE\bfseries%
98           ] {\nohyphens{\kua@title}};%
99       }{%
100        \node%
101          [ node distance=1.5\baselineskip%
102          , above=of refstr%
103          , text width=\textwidth%
104          , text centered%
105          , font=\large\bfseries%
106          ] (sub) {\nohyphens{\kua@subtitle}};%
107        \node%
108          [ node distance=1pt%
109          , above=of sub%
110          , text width=\textwidth%
111          , text centered%
112          , font=\LARGE\bfseries%
113          ] {\nohyphens{\kua@title}};%
114      }%
115      \node%
116        [ node distance=\baselineskip%
117        , below=of refstr%
118        , text width=\textwidth%
119        , text centered%
120        , font=\large%
121        ] {\nohyphens{\kua@reference}}%
122    ;%
123  \end{tikzpicture}%
124 }
125
126 \newenvironment{kaupaper}[1][]{%
127   \setcounter{kua@section}{\value{section}}%
128   \setcounter{kua@equation}{\value{equation}}%
129   \setcounter{kua@figure}{\value{figure}}%
130   \setcounter{kua@table}{\value{table}}%
131   \setcounter{section}{0}%
```

```
  \setcounter{equation}{0}%
  \setcounter{figure}{0}%
  \setcounter{table}{0}%
  \setkeys[kua]{paper}{subtitle=,vanity=,subdelimiter={---},label=,summary={\string\textcolor{
  \setcounter{kua@paper}{\value{kup@part}}\stepcounter{kua@paper}%
  \ifthenelse{\equal{\kua@subtitle}{}}%
    {\addcontentsline{pap}{paper}{\kua@author. \kua@title. In \kua@reference}%
     \addcontentsline{toc}{part}{\textsc{Paper} \Roman{kua@paper}\\\kua@title}}%
    {\addcontentsline{pap}{paper}{\kua@author. \kua@title\kua@subdelimiter\kua@subtitle. In \k
     \addcontentsline{toc}{part}{\textsc{Paper} \Roman{kua@paper}\\\kua@title\kua@subdelimiter
  \addcontentsline{sum}{summary}{\string\subsection*{Paper~\Roman{kua@paper} -- \kua@title}\ku
  \ifthenelse{\equal{\kua@limitations}{}}{}{%
    \addcontentsline{sum}{limit}{\kua@limitations}}%
  \addcontentsline{pcp}{participation}{\string\paragraph{Paper~\Roman{kua@paper}}\kua@particip
  \kaupart[tocentry=false,label=\kua@label,body=\papercover\kua@vanity]{Paper}%
  \renewcommand*\thepaper{Paper \Roman{kua@paper}}%
  \renewcommand*\thepapertitle{\kua@title}%
  \renewcommand\maketitle{%
    \thispagestyle{plain}%
    \centering%
      \Large\bfseries%
      \vspace*{0.15\textheight}%
      \kua@title\par%
      \addvspace{1ex}%
      \ifthenelse{\equal{\kua@subtitle}{}}{}{\large\kua@subtitle}%
      \par\addvspace{\baselineskip}%
      \normalsize%
      \kua@author\\[0.25\baselineskip]%
      \normalfont%
      \kua@email%
    \par\addvspace{2\baselineskip}\justifying%
  }%
}{%
  \setcounter{section}{\value{kua@section}}%
  \setcounter{equation}{\value{kua@equation}}%
  \setcounter{figure}{\value{kua@figure}}%
  \setcounter{table}{\value{kua@table}}%
  \clearpage%
}
```

Change History

v1.0

General: SBe's licentiate version . . 1

v1.1

General: Initial public release 1

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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