mynsfc — 国家自然科学基金申请书正文模板*

Fred Qi†

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摘　　要

用于自然基金申请书正文部分的撰写。

1　使用说明

2　实现

<*class>

```
1 %% Options
2 \newif\ifmynsfc@subfig\mynsfc@subfigfalse
3 \DeclareOption{subfig}{\mynsfc@subfigtrue}
4 \ProcessOptions
5 %% Load default class
6 \LoadClass[a4paper,fleqn]{article}

7 %% Load required packages
8 \RequirePackage{titlesec}
9 \RequirePackage{marvosym}
10 \RequirePackage{bm,amsmath,amssymb}
11 \RequirePackage{paralist}
12 \RequirePackage{graphicx}
13 \ifmynsfc@subfig
14 \RequirePackage[config]{subfig}
15 \else
16 \RequirePackage{subcaption}
17 \fi
18 \RequirePackage{xcolor}
19 \RequirePackage{calc}
20 \RequirePackage{hyperref}
21 \hypersetup{%
22   breaklinks=true,
23   colorlinks=true,
24   allcolors=black,
25   pdfpagelabels}
26 \urlstyle{same}

27 %% Load and setup package biblatex
28 \RequirePackage[backend=biber,
29               url=true,
30               isbn=false,
31               defernumbers=true,
32               style=ieee]{biblatex}
33
34 \appto{\bibfont}{\wuhao}
35 \defbibheading{reftype}[\bibname]{\subsection*{#1}}
36 \defbibheading{cvtype}[\bibname]{\paragraph{#1}}
37 \defbibfilter{conference}{type=inproceedings or type=incollection}
```

```
38
39 \RequirePackage{xpatch}% or use http://tex.stackexchange.com/a/40705
40
41 \newbibmacro*{name:bold}[2]{%
42   \def\do##1{\ifstrequal{#1, #2}{##1}{\bfseries\listbreak}{}}%
43   \dolistloop{\boldnames}}
44 \newcommand*{\boldnames}{}
45
46 \xpretobibmacro{name:last}{\begingroup\usebibmacro{name:bold}{#1}{#2}}{}{}
47 \xpretobibmacro{name:first-last}{\begingroup\usebibmacro{name:bold}{#1}{#2}}{}{}
48 \xpretobibmacro{name:last-first}{\begingroup\usebibmacro{name:bold}{#1}{#2}}{}{}
49 \xpretobibmacro{name:delim}{\begingroup\normalfont}{}{}
50
51 \xapptobibmacro{name:last}{\endgroup}{}{}
52 \xapptobibmacro{name:first-last}{\endgroup}{}{}
53 \xapptobibmacro{name:last-first}{\endgroup}{}{}
54 \xapptobibmacro{name:delim}{\endgroup}{}{}
```

\dummyMacro This is a dummy macro. If it did anything, we'd describe its implementation here.

```
55 %    \begin{macrocode}
56 %
57 \newcommand{\dummyMacro}{}

58 %% Setup Chinese fonts with xeCJK
59 \RequirePackage[AutoFakeBold]{xeCJK}
60 \def\CJK@null{\kern\CJKnullspace\Unicode{48}{7}\kern\CJKnullspace}
61 \punctstyle{quanjiao}
62 \defaultfontfeatures{Mapping=tex-text} % after fontspec
63 \setCJKmainfont{仿宋_GB2312}
64 \setCJKsansfont{SimHei}
65 \setCJKfamilyfont{song}{仿宋_GB2312}
66 \setCJKfamilyfont{hei}{SimHei}
67 \setCJKfamilyfont{kai}{KaiTi}
68 \setmainfont{Times New Roman}
69 \setmonofont{Courier Std}
```

\kai
\kaiti
\song Define commands to select Chinese fonts.
\songti
\hei
\heiti

```
70 \newcommand{\kai}{\CJKfamily{kai}}   % 仿宋体
71 \newcommand{\song}{\CJKfamily{song}} % 宋体
72 \newcommand{\hei}{\CJKfamily{hei}}   % 黑体
73 \def\kaiti{\kai}
74 \def\songti{\song}
75 \def\heiti{\hei}

76 \newlength\mynsfc@linespace
77 \newcommand{\mynsfc@choosefont}[2]{%
78   \setlength{\mynsfc@linespace}{#2*\real{#1}}%
79   \fontsize{#2}{\mynsfc@linespace}\selectfont}
80 \def\mynsfc@define@fontsize#1#2{%
81   \expandafter\newcommand\csname #1\endcsname[1][\baselinestretch]{%
82     \mynsfc@choosefont{##1}{#2}}}
83 \mynsfc@define@fontsize{chuhao}{42bp}
84 \mynsfc@define@fontsize{xiaochu}{36bp}
85 \mynsfc@define@fontsize{yihao}{26bp}
86 \mynsfc@define@fontsize{xiaoyi}{24bp}
87 \mynsfc@define@fontsize{erhao}{22bp}
88 \mynsfc@define@fontsize{xiaoer}{18bp}
89 \mynsfc@define@fontsize{sanhao}{16bp}
90 \mynsfc@define@fontsize{xiaosan}{15bp}
91 \mynsfc@define@fontsize{sihao}{14bp}
92 \mynsfc@define@fontsize{banxiaosi}{13bp}
93 \mynsfc@define@fontsize{xiaosi}{12bp}
94 \mynsfc@define@fontsize{dawu}{11bp}
95 \mynsfc@define@fontsize{wuhao}{10.5bp}
```

```
 96 \mynsfc@define@fontsize{xiaowu}{9bp}
 97 \mynsfc@define@fontsize{liuhao}{7.5bp}
 98 \mynsfc@define@fontsize{xiaoliu}{6.5bp}
 99 \mynsfc@define@fontsize{qihao}{5.5bp}
100 \mynsfc@define@fontsize{bahao}{5bp}
101 % Define page layout
102 \setlength{\textwidth}{\paperwidth}
103 \setlength{\textheight}{\paperheight}
104 \setlength\marginparwidth{0mm}
105 \setlength\marginparsep{0mm}
106 \addtolength{\textwidth}{-50mm}
107 \setlength{\oddsidemargin}{0mm}
108 \setlength{\evensidemargin}{\oddsidemargin}
109 \setlength{\headheight}{20pt}
110 \setlength{\topskip}{0mm}
111 \setlength{\skip\footins}{15pt}
112 \setlength{\topmargin}{-15mm}
113 \setlength{\footskip}{13mm}
114 \setlength{\headsep}{6mm}
115 \addtolength{\textheight}{-50mm}
116 \setlength{\parskip}{0pt \@plus2pt \@minus0pt}
```

\normalsize Redefine command

```
117 \renewcommand\normalsize{%
118   \@setfontsize\normalsize{12bp}{20bp}
119   \abovedisplayskip=10bp \@plus 2bp \@minus 2bp
120   \abovedisplayshortskip=10bp \@plus 2bp \@minus 2bp
121   \belowdisplayskip=\abovedisplayskip
122   \belowdisplayshortskip=\abovedisplayshortskip}

123 % Define page styles
124 \def\ps@mynsfc@empty{%
125   \let\@oddhead\@empty%
126   \let\@evenhead\@empty%
127   \let\@oddfoot\@empty%
128   \let\@evenfoot\@empty}
```

hcomment Dimmed text used as hint after section titles.

```
129 \newenvironment{hcomment}{\vskip-3pt\color{gray}}{\vskip6pt}
```

\figurename Translate English to Chinese.
\tablename
\contentsname
```
130 \renewcommand{\figurename}{图}
131 \renewcommand{\tablename}{表}
132 \renewcommand{\contentsname}{内容目录}

133 %
134 \DeclareCaptionLabelFormat{mynsfc@cap}{{\wuhao#1\rmfamily#2}}
135 \DeclareCaptionLabelSeparator{mynsfc@sep}{\hspace{1em}}
136 \DeclareCaptionFont{mynsfc@capfont}{\wuhao}
137 \captionsetup{labelformat=mynsfc@cap,
138               labelsep=mynsfc@sep,
139               font=mynsfc@capfont,
140               justification=centering}
```

CJKindent Indent with two Chinese full spaces.

```
141 %
142 \newlength\mynsfc@CJK@twochars
143 \newcommand{\mynsfc@unicode}[2]{\char\numexpr#1*256+#2\relax}
144 \def\mynsfc@CJK@space{\mynsfc@unicode{48}{7}}
145 \def\CJKindent{%
146   \settowidth\mynsfc@CJK@twochars{\mynsfc@CJK@space\mynsfc@CJK@space}%
147   \parindent\mynsfc@CJK@twochars}
```

ommands to format several levels of titles (part, section, subsection).

```
\part
\section
\subsection
\subsubsection
C
148 \def\nsfc@CJKnumber#1{\ifcase#1{零}\or%
149   {一}\or{二}\or{三}\or{四}\or{五}\or%
150   {六}\or{七}\or{八}\or{九}\or{十}\or%
151   {十一}\or{十二}\or{十三}\or{十四}\or{十五}\or%
152   {十六}\or{十七}\or{十八}\or{十九}\or{二十}\fi}
153
154 \renewcommand{\thepart}{\nsfc@CJKnumber{\c@part}}
155 \titleformat{\part}{\kai\bfseries\sanhao}%
156              { (\thepart) }{0ex}{}
157 \titlespacing{\part}{0ex}{4ex}{2ex}
158
159 \@addtoreset{section}{part}
160 \renewcommand{\thesection}{\arabic{section}.}
161 \titleformat{\section}{\kai\bfseries\xiaosan}%
162              {\thesection}{0.25em}{}
163 \titlespacing{\section}{0em}{4ex}{2ex}
164
165 \renewcommand{\thesubsection}{\bf\arabic{section}.\arabic{subsection}}
166 \titleformat{\subsection}{\hei\sihao}%
167              {\thesubsection}{0.25em}{}
168 \titlespacing{\subsection}{0em}{2ex}{1ex}
169
170 \titleformat{\subsubsection}{\kaiti\bfseries\banxiaosi}%
171              {\thesubsubsection}{0.25em}{}
172 \titlespacing{\subsubsection}{0em}{2ex}{1ex}

173 \let\mynsfc@begindocumenthook\@begindocumenthook
174 \let\mynsfc@enddocumenthook\@enddocumenthook
175 \def\AtBeginDocument{\g@addto@macro\mynsfc@begindocumenthook}
176 \def\AtEndDocument{\g@addto@macro\mynsfc@enddocumenthook}
177 \def\@begindocumenthook{\mynsfc@begindocumenthook}
178 \def\@enddocumenthook{\mynsfc@enddocumenthook}
179 \AtBeginDocument{\ps@mynsfc@empty\CJKindent}
180 \endinput
181 ⟨/class⟩
```

3 Change History

v1.00
   General: First public release 1

4 Index

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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