My Title

Summary

This paper showes the usage of latex class HZNUMCM and gives most used examples for mathematical typeset. This paper can also be used as a handbook for typing latex. We give the pdf file and the source code file.

This HZNUMCM class file comes from easymcm, a latex .sty package and a simple MCM Contest Report Template for basic users from orin9inal template by latexstudio, <latexstudio@hotmail.com> improved by youjiarui189 (xjtu-blacksmith), <yjr134@163.com>.

This document also pick many pages from the not so not introduction to Latex [1], so that one can search quickly.

Contents

1   Basic usage of the HZNUMCM class

1.1   Basic document structure for using HZNUMCM class

The basic .tex file structure is as the following and comment for each corespending line is listed.

```
1    \documentclass{HZNUMCM}.      % class choose
2    \setControlNumber{8889888}   % set Control Number
3    \setContestType{MCM}         % contest type, only MCM or ICM allowed
4    \setProblemLetter{B}         % choose problem A,B,C,D,E or F
5    \setBibFilename{McmTexExample} % set bib file, without dot and suffix
6    \setPaperTitle{My Title}     % set your title
7    \setSummary{summary}         % define summary
8    \begin{document}
9       \showSummarySheet        % show summary, the first page.
10      \showContents            % show contents
11      \section{aaaa}
12         ...
13      \section{bbbb}
14         ...
15         ...
16      \showReferences          % show references
17   \end{document}
```

1.2   Process from source files to target .pdf

Usually, the process can be executed as following:

- Type what you think in the .tex file, following the Latex syntax.

- xelatex several times, biblatex one time and then xelatex several times again.

2   Introduction to mathematical typeseting within Latex

We choose mathematical typeseting from [1].

3   Some complements

We put the source code of the HZNUMCM latex class file and this file on the gitHub `https://github.com/hznu-maguochun/HZNUMCM`, so that one use it can understand it. Any one, who want to use or improve it, is welcome. This class file also gives an idea about how to make a formatted file.

References

[1] Irene Hyna Tobias Oetiker, Hubert Partl and Elisabeth Schlegl. The not so short introduction to latex2e. `CTAN://info/lshort`. Online; accessed 19 January 2019.