

## HOW TO WRITE A PAPER FOR COMPUTING AND INFORMATICS

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**Abstract.** This short text offers the guide how to write a paper for CAI. The journal is published in B5 format. The papers are composed by help of the L<sup>A</sup>T<sub>E</sub>X system. A special L<sup>A</sup>T<sub>E</sub>X style is used, derived from the *article* style.

**Keywords:** Writing a paper, document structure, L<sup>A</sup>T<sub>E</sub>X style

**Mathematics Subject Classification 2010:** AB-XYZ

### 1 INTRODUCTION

The L<sup>A</sup>T<sub>E</sub>X style for writing papers is available on the web [1]. Beside the style, the source file of this document can be found there. It is recommended to use the source file when writing a paper.

### 2 DOCUMENT STRUCTURE

A pre-defined *cai* style, the result of a modification of the *article* style, is used for the papers (`\documentstyle{cai}`). Document structure is obvious from the source file of this guide [1].

To structure text into sections and subsections, use the commands `\section{}` and `\subsection{}` (or `\subsubsection{}`).

As a rule, the text to be *highlighted* is italicized `\textit{...}`.

## 2.1 Itemizing, Enumerating ...

Itemized and numbered lists can be created by help of standard  $\LaTeX$  environments *itemize* and *enumerate*. For longer descriptions use lists in the *description* environment.

## 2.2 References

References to literature are listed in the end of the paper text, as shown in this document. To refer to a concrete literature, use the `\cite{...}` command. As an example of literature reference, a journal paper, a book and a conference paper are given [3, 4, 5].

To refer to a section of the text, use the `\label{...}` and `\ref{...}` commands.

## 3 INSERTING SPECIALS

### 3.1 Tables

To insert tables, use the *table* environment:

```
\begin{table}
...
\caption{Caption for this table}\label{tabone}
\end{table}
```

To create a body of table, use standard  $\LaTeX$  methods. We did not create a body of table in the *table* environment.

### 3.2 Figures

To insert figures, use the *figure* environment:

```
\begin{figure}
...
\caption{Caption for this figure}\label{figone}
\end{figure}
```

To include external figures, use the `\includegraphics{file.pdf}` command from the *graphicx* package. External figures are admissible in the Encapsulated PostScript (*.eps*) or PDF (*.pdf*) format.

Figures can also be created by help of the techniques available directly in  $\LaTeX$ , or in PSTricks.

### 3.3 Mathematical Constructions

Mathematical formulas are enclosed in  $\$$  as the math bracket. To insert equations, use the  $\$$. . . \$$  constructions. To insert numbered equations, or equations to be referred to, use the *equation* environment.

```
\begin{equation}
...
\label{eqno1}
\end{equation}
```

For multi-line equations, use the *eqnarray* environment:

```
\begin{eqnarray[*]}
var_1 & \rel_1 & \eq1 \\
var_2 & \rel_2 & \eq2 \\
...
\end{eqnarray[*]}
```

### 3.4 Lemmas, Proofs. . .

To write Proofs, use the *proof* environment:

```
\begin{proof}
...
\end{proof}
```

If you need further (numbered) environments to express mathematical structure, define them according to the following example:

```
\newtheorem{lemma}{Lemma}
```

**Lemma 1** (Hopcroft). This is Lemma. . .

## 4 CONCLUSIONS

We believe that this short guide will help you to write papers for CAI. In case of any technical problems, contact us at [cai@fpv.utc.sk](mailto:cai@fpv.utc.sk).

Having finished the paper, send the T<sub>E</sub>X (*.tex*) and PDF (*.pdf*) files to the Editorial Office. If you insert external figures (*.eps* or *.pdf*), include them as well. Use the e-mail address [cai.ui@savba.sk](mailto:cai.ui@savba.sk).

## REFERENCES

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