

# Formal Requirements for the Papers Submitted to the “Acta Technica Jaurinensis” Periodical

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**Abstract:** This paper contains the description of the prescribed format of the papers published in the periodical entitled “Acta Technica Jaurinensis”. The length of the abstract is between 500-1000 characters including spaces. Avoid using references in the abstract.

**Keywords:** *desktop publishing; printing; editing (minimum 3, maximum 5)*

## 1. Introduction

Applying fixed style files is essential for professional publishing. This paper shows how to prepare your manuscript for publishing in Acta Technica Jaurinensis using L<sup>A</sup>T<sub>E</sub>X document preparation system. Note that there is a Word sample document with the same goal. The author should decide between L<sup>A</sup>T<sub>E</sub>X and Word formats. If the author applies the instructions in this paper or the ones written in the Word sample, the overall layout and visible appearance of the paper will be the same in both systems, however the small typesetting details will differ slightly. Generally, L<sup>A</sup>T<sub>E</sub>X handles the complex mathematical formulas better than Word and it is better in fine typographical details also, but Word is more widely known and produces reasonable output for text and simple formulas.

Acta Technica Jaurinensis is a peer reviewed scientific journal published by Széchenyi István University, Győr. It was founded in 2008. The journal is published on terminally. The main scope of Acta Technica Jaurinensis is to provide a publication possibility related to the following topics: vehicle, mechanical engineering and mechatronics; transportation science and logistics; architecture, civil and agricultural engineering; information technology and electrical engineering. We are ready to publish any short original publication, new research result as well as review articles covering broader topics. The subject matter can be theory, methodology, empirical studies and applications.

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## **2. Structure of paper**

### **2.1. Preamble**

The style file for Acta Technica Jauriensis is based on standard “article” style. You should start your paper with the following lines:

```
\documentclass[10pt,a5paper]{article}  
\usepackage{acteja}
```

“acteja.sty” should be on L<sup>A</sup>T<sub>E</sub>X path, practically in the same directory as the main file of paper.

You have to specify title and author with standard commands and use `\institute` for specifying institute of authors. If a number of authors are from the same institute, it is not necessary to duplicate the institute field. See the L<sup>A</sup>T<sub>E</sub>X source of this document for an illustrative example.

You can include any style file in the preamble assuming that:

- the macro packages do not change page layout, fonts, sectioning or other global features,
- the resulted document can be translated into PDF,
- they are well known standard packages
  - `graphicx`,
  - `pstricks`,
- or you include them with the submitted package.

We advise you to use `pdflatex`, but if some of your macro packages are not compatible with it, you can use standard `latex` and `dvipdf` to translate.

`actej.a.sty` sets UTF-8 encoding for accented characters. Please, use UTF-8 encoding in your document.

## **2.2. Opening**

After `\begin{document}` the author must use the following commands and environments in this order:

1. `\maketitle` command (no argument),
2. `abstract` environment for abstract,
3. `\keywords{...}` command for keywords.

## **2.3. Sections**

Use standard `\section` and `\subsection` for sectioning. Deeper levels of sectioning is unnecessary in our papers.

## **2.4. Bibliography**

Use standard `thebibliography` environment at the end of document. Ordering of bibliography items should follow the order of citation in the text. At the end

of this sample paper we show examples for bibliography entries. If You prefer to use BibTeX to generate the bibliography, please refer to the `acteja_with_bib` LaTeX template, which can be found on our website!

## **2.5. References in the text**

The author(s) takes/take the full responsibility for the accuracy of their references. The format of references must be uniform and consistent with the instructions below. All publications cited in the text should be referred to by a number in square brackets (e.g., [1]). Concatenation of references (e.g., [1-4]) is not allowed. Note that only one reference belongs to one number. Use “Cite” style for left alignment and automatic numbering. All doi numbers should be represented if available, and use “Shift – Enter” keys for new line break.

The examples of references of papers in English [1], papers in other languages [2], books [3], book chapters [4], conference proceedings [5], theses [6], standards [7], patents [8] and online [9] are shown in References. If the page numbering of the journal is not continuous within one year, the article ID should be given instead of the page numbers [10]. The doi number and URL must be hyperlinks [1] [3] [5] according to Link style.

In the list of references author names are expected in the “C. Family” format where “C” is the initial of the first name. Till there are 3 authors, give the names of each author [2], over 3 authors give the names of the first 2 authors, then use et al. [11]. Provide the complete title of publication (title of paper, book, book chapter, standard, patent). Do not abbreviate journal or conference names, e.g. write “Transactions on Medical Imaging” instead of “Trans Med Imaging”.

It is required to include at least 10, up-to-date, relevant English language references.

### 3. Standard elements

#### 3.1. Graphics

We recommend using `pdflatex`.

In this case a `\usepackage[pdftex]{graphicx}` must be included in the preamble. With this setting, JPG, PNG and PDF files can be included directly.

Standard  $\text{\LaTeX}$  `picture` environment is an another good solution.

PsTricks macros are also accepted, but it implies that you must translate your paper `latex` or `pslatex` instead of `pdflatex`, which allows only EPS files.

Please, use vector graphics (see Fig. 1) if possible to realize good quality.

All the figures must be in `figure` environment. We recommend using `[htbp]` placing parameters and using `width=\dots\textwidth` size specification. Using `\caption`, `\label` and centering the image is madantory in every figure.

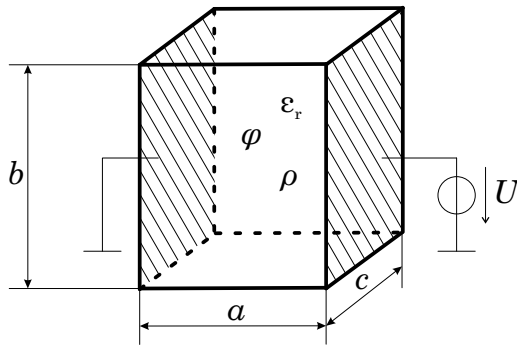


Figure 1. Simple model of a Capacitor in 3D.

For example Fig 2. is included using the following commands:

```
\begin{figure}[htbp]
\begin{center}
\includegraphics[width=0.6\textwidth]{fig/slbp-bodies.png}
\end{center}
\caption{Simple dynamical system.}
\label{fig:simpledyn}
\end{figure}
```

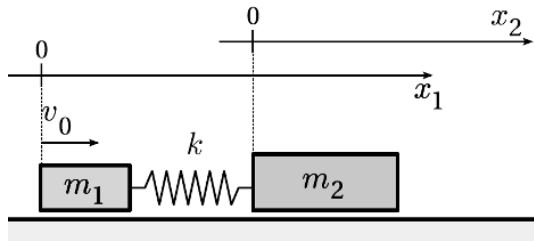


Figure 2. Simple dynamical system.

### 3.2. Tables

Use standard `tabular` environment for tables. If possible, avoid publishing multi-page tables in Acta Technica Jaurinensis, try to reorganize them to smaller tables if possible. If not, use `supertabular` environment.

Similarly to figures, all tables must be put in `table` environment with `\caption`, `\label` and centering.

The table should be centred, and the relevant caption should be placed above the table (see Table 1.). Do not forget to use table caption style.

#### 3.2.1. An example

After the table and figure caption, `\noindent` command is used.

Table 1. Table caption

| <i>Column A</i> | <i>Column B</i> | <i>Column C</i> | <i>Column D</i> |
|-----------------|-----------------|-----------------|-----------------|
| 100 %           | 50              | 2               | <b>2.24</b>     |
| 90 %            | 38              | 4               | <b>2.05</b>     |
| 80 %            | 34              | 0               | <b>1.94</b>     |
| 70 %            | 20              | 2               | <b>1.75</b>     |

### 3.3. Equations

Use the standard  $\text{\LaTeX}$  tools for typesetting equations. Labeling of equations is necessary only if you refer the equation in the paper.

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k} \quad (1)$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (2)$$

### 3.4. Other formatting rules

The standard way to emphasize text is `\emph{...}`. Never use `\textbf{...}` and `\underline{...}` in text and use them in tables and figures with special care.

Please, use ‘–’, ‘--’ and ‘---’ consistently as it is written in standard  $\text{\LaTeX}$  tutorials.

## 4. Submitting the $\text{\LaTeX}$ paper

A paper written in  $\text{\LaTeX}$  usually consists of many files: a main  $\text{\LaTeX}$ -file, figures, possibly special macro packages (see above). All of them must be packed into a zip

archive for simplicity. The name of this zipped file must be composed by the first one or two authors' family names, i.e. `Author1Author2.zip`. Please, do not use spaces and accented letters in the filenames.

A file, describing the compilation of the paper must be included also. Use `COMPILE.TXT` for this file. This must include the commands which produces PDF from the source file. In the most simple case it is only a `'pdflatex main.tex'` line, but it can be a 2 or 3 line file if you use `latex`, `pslatex`, `dvipdf` and similar standard latex versions.

Please compile and include the PDF version for reference. The technical staff will set the volume and page numbers and possibly make minor typographical corrections before publishing.

## **Acknowledgement**

The publishing of this paper was supported by XY.

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