Current problems in rail vehicles – proceedings template

Současné problémy v kolejových vozidlech – šablona pro sborník

Petr VOLTR[[1]](#footnote-1), Tomáš MICHÁLEK[[2]](#footnote-2), Stanislava LIBEROVÁ[[3]](#footnote-3)

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Abstract

The paper starts with the abstract which should sum up the contents of the paper in about five lines of text. The abstract is followed by keywords, separated by commas.

Keywords

paragraph, page, heading, footer

Abstrakt

Nepovinně lze uvést překlad abstraktu do českého nebo slovenského jazyka.

Klíčová slova

odstavec, stránka, nadpis, zápatí

# Introduction

This is a template for papers to be published in the Current Problems in Rail Vehicles conference proceedings. The template is arranged following international conventions in publication of scientific papers.

Please use the styles established in this document and do not change their definitions. The minimum length of the paper is four pages. At the same time, the length of the paper should not exceed eight pages and the number of pages should be even. Peer-reviewed papers will be published in electronic proceedings, preserving of any colours used in the figures. However, all papers included in the conference programme will also be available to participants in a printed version in grayscale. Colours can therefore be used, but it is advised to distinguish e.g. lines in plots not only by colour but also by line type.

# Paper layout

The paper is written in English, with some items optionally translated into Czech or Slovak (“2nd language” in style names). Besides the title page header, which is not to be changed, the first part of the text is the paper title. After the title in English, please translate the title into Czech or Slovak, or delete the second language title. A suitable title captures the content of the paper while not being too long – a title exceeding two lines can often be shortened.

After the headings comes information about the authors of the paper – the format is obvious from this template. Each name is followed by a numeric reference to a footnote that includes the name with full titles, ORCID iD (if the author has one), workplace, telephone number, and e-mail address.

The next line includes the ISBN, ISSN and DOI identifiers (in the electronic proceedings consisting of peer-reviewed papers, to be supplemented by the editor) and the license logo – please do not make changes in this line.

This is followed by an abstract and keywords in English and then optionally in Czech or Slovak (please supply a translation, or delete these blocks together with their headings). The layout and extent can be seen at the beginning of this template. The main text is further divided into numbered sections, the first section is Introduction, the last section is Conclusions. The conclusions section is followed by information on research funding (if relevant) and, at the very end, a list of bibliographic references.

As an alternative, the paper can be written in Czech or Slovak, with translation of the title and abstract into English. In this case, please use the Czech version of this template.

Please submit your paper via the OJS platform after registering in the system on the conference website, where you upload the source file in MS Word format and fill in the necessary metadata (authors’ details, title of the paper, abstract, keywords, etc.). In case of technical difficulties, please contact the organizer of the conference.

# Formatting styles

## Normal text

The font of the body text, as well as other parts that do not require a different style, is Arial; the basic size is 11 points. To highlight a short part of the text, it is sufficient to set the selected words to bold or italic, or you can use Emphasis or **Strong** style. Paragraphs are separated by first line indent. This is not achieved by the Tab key, but by choosing the style Normal with Indent. The Normal style is the same except for the absence of indentation of the first line – please use Normal style where a new paragraph begins typographically, but not logically.

Footnotes containing author information are automatically set to the standard Footnote style when created. You don’t need to change the formatting, just highlight the name with all the titles in bold. Use the Abstract style for abstract and keywords, and the Abstract Heading style for their headings. For translations, the styles Abstract (2nd language) and Abstract Heading (2nd language) are defined.

Please keep the document clean. If you paste text from another document, it is better to paste it as unformatted text so that it does not interfere with the styles of the proceedings template.

## Headings

### Third level heading sample

To format the title of the paper, please use the styles Title and Title (2nd language). Section headings are formatted in standard heading styles with automatic numbering. The third level of headings (Heading 3) – if needed – is not numbered.

## Lists

For a list that is too complex for a single sentence, but does not need separate paragraphs or sections, please use bullet or numbered lists. If the items are not complete sentences, it is recommended to separate them with commas and end the list with a full stop, as shown for example

* here,
* in this line,
* at the end of the list.

The basic symbol for the item of a bullet list is a solid circle; numbered lists should be marked with either Arabic numerals with a dot (“1.”) or lowercase letters with brackets (“a)”). For both types of lists, it is recommended to use the list styles Bullet List or Numbered List, respectively (available in the Multilevel List menu), which provide neat indentation in multiple levels.

# Additional elements

## Figures

Figures should be inserted “In Line with Text” in a paragraph with the Figure style – its definition includes center alignment and suitable vertical space at the top and bottom.

Each figure is followed by a caption (style Caption) with the abbreviation “Fig.”, a number (both in bold) and a description of the figure. Do not end the caption of the picture with a full stop, unless it consists of multiple sentences. The number is used to refer to the figure in the text, e.g. “see Fig. 1” or “Figure 1 shows ...”. The figures can be numbered manually or automatically (caption “Fig.”), but if using automatic numbering, please modify the cross-references so that they are not in bold.

Please make sure that the resolution of the images is sufficient and that the information is not lost due to fine differences in colour shades or too thin lines. The printed version of the conference proceedings will be in B5 format, so the pages will be scaled down to approximately 80 %. Images that are vector in nature should be inserted in vector format if the software used can provide it reliably – for example, using EMF or SVG format. As an effective way of monochrome sketches or parts of technical drawings that cannot or are not suitable to insert in a vector format, it is advisable to make a bitmap copy in high resolution, i.e. at least 300 dpi, with one bit per pixel (only black and white points).



**Fig. 1** Figure caption

## Tables

Tables are included in the text in a similar way to figures. The caption (in the Caption style) comes before the table, starting with the abbreviation “Tab.” and a number, both in bold. If vertical lines are not essential for orientation in the table, they should be omitted. Table 1 shows such formatting defined by the Proceedings Table style in the list of table styles. Individual rows are separated by a thin line (1/4 pt), the first and last lines are thicker (3/4 pt) and the header is separated from the table content by a thicker line as well.

**Tab. 1** Table caption

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | type A | type B |
| gauge | [mm] | 1435 | 1000 |
| wheel diameter (new) | [mm] | 920 | 800 |
| bogie wheelbase | [mm] | 2500 | 2300 |
| maximum speed | [km/h] | 140 | 100 |
| maximum axle load | [t] | 16 | 10 |

Tables should be centered. To separate a table from the following text, insert a blank line after the table or individually set the vertical space before the next paragraph.

## Mathematics

Mathematics in the text includes symbols and simple inline expressions, as well as separate (“display”) equations. Equations are centered and marked with a number in parentheses at the right margin which can be used to refer to the equation in the text. The number can be inserted manually or by using the automatic caption “Equation”. A suitable way to format equations is to use the Paragraph with Equation style, in which one centered stop and one flush right stop are accessible by the Tab key, and appropriate vertical spacing is provided. It is recommended to treat the equation as part of a sentence and to give explanations of symbols that have not yet been defined, such as:

 $μ=f\_{0}⋅\left(1-e^{-c⋅s}\right),$ (1)

where *s* is creepage, *f*0 is coefficient of friction and *c* is a parameter to be calibrated by experiments. This is exactly the place where the Normal (no-indent) style should be used, since the paragraph logically continues after the equation.

If you use mathematic expressions with fractions, integrals etc. and wish to avoid shrinking of the symbols, forced by Word in the inline mode, you can insert both the equation and the number in a table without border lines (style Table with Equation):

|  |  |  |
| --- | --- | --- |
|  | $$y=\frac{Ax+B}{Cx+D} .$$ | (2) |

Variables are set in italic, bold face is reserved for matrices. Physical units (such as mm, MPa) should be set in upright style even inside the equations.

# Conclusions

The last section of the text is a conclusion which should summarize the most important findings presented in the paper and discuss their consequences.

The conclusions section is followed by acknowledgments of funding (style Acknowledgments) and list of bibliographic references (style References List). Each item starts on a new line and is annotated with a number in square brackets – this formatting is set here by means of a numbered list. The same numbers in square brackets are used to refer to the items in the text, e.g. [1], or [1, 2] for multiple items – although if using cross-references, you’ll have to insert these as [1], [2].

The order of items in the bibliography list follows the order of the first occurrence of references in the text. Please do not neglect to include any source that is essential for the presented work, and for each item, properly give all the fields necessary for its identification. Examples for books, chapters, articles, technical standards and websites are provided in this template.

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1. **doc. Ing. Petr Voltr, Ph.D.**,  0000-0001-7516-1069. University of Pardubice, Faculty of Transport Engineering, Educational and Research Centre in Transport, Studentská 95, 532 10 Pardubice, Czech Republic, phone: +420 466 038 520, e-mail: petr.voltr@upce.cz [↑](#footnote-ref-1)
2. **doc. Ing. Tomáš Michálek, Ph.D.**,  0000-0001-7776-6627. University of Pardubice, Faculty of Transport Engineering, Department of Transport Means and Diagnostics, Nádražní 547, 560 02 Česká Třebová, Czech Republic, phone: +420 466 037 415, e-mail: tomas.michalek@upce.cz [↑](#footnote-ref-2)
3. **Ing. Stanislava Liberová, Ph.D.** Dtto, phone: +420 466 037 426, e-mail: stanislava.liberova@upce.cz [↑](#footnote-ref-3)