template For preparation of articles

Name Surname1, Name Surname2, Name Surname1,2

1Organization, Country; 2Organization, Country

mail\_a@mail.com, mail\_b@mail.com

**Abstract.** Abstract reflects contents of article, gives prompt description of a scientific problem, main results and brief conclusion of the study. General description of topic should be avoided. Abstract should consist of a single paragraph, approximately between 1500-2000 characters with spaces and should contain description of problem, methods and main results of the research. References to literature, bullets and numbering cannot be used in abstract.

**Keywords:** no more than 4-5 words, no sentences or long phrases.

Introduction

This template should be used in preparation of articles for the international scientific conference “Engineering for Rural Development 2022”. The advisable structure of the article: title, name, surname of the authors, organisation, e-mail address, abstract, key words, introduction, materials and methods, results and discussion, conclusions, references.

The advisable number of pages is 6, minimum is 4. Each extra page publication 50 EUR per page. The total number of authors should not exceed 4. Publications by larger author collectives cost additional 50 EUR per author. Author names should be written in English fully, without abbreviations. E-mails should be provided for all co-authors.

The article should be prepared in U.K. English in MS Word program on A4 format pages with 25 mm top and bottom margins, 30 mm inside and 20 mm outside margin. Orientation of page only in portrait. All text should be written using Unicode Times New Roman, main text with 11 pt font size, single line spacing and 3 pt after-paragraph spacing, 7 mm first line indent and justified.

Title of the article should be in all caps, 11 pt, centered, bold and 6 pt after-paragraph spacing. Names and surnames of authors should be in 10 pt font size, bold and centered. Institution and contact information – 11 pt and centered. Authors’ names can be linked to institutions using numbers in superscript format: the same number after the author’s name and before the institution (see example in this document). E-mails should not be linked to authors. Please do not use diacritical marks for names and organizations. Pay attention to correct name of your organization, including correct type of private organizations Ltd, GmbH, AG, SA etc.

Abstract and key words text – 10 pt with words “abstract” and “keywords” in bold.

Titles can be pointed out using bold style. All variables in the plain text and formulae should be formatted in italic. Position and formatting of table and figure titles are given in the sample article. Tables should be in MS Word or Excel, formulas – MS Equation, diagrams – MS Word or Excel. In order to achieve the best quality of the final look of the article it is recommended to supply all figures and chart data electronically in separate files. If the article includes objects prepared in other programs, for instance, Excel diagram, Visio scheme, CorelDraw figure etc., we would like to ask you to send also the file in which this object was prepared. If possible complicated figures and schemes should be prepared in the mentioned drawing programs avoiding large grouped objects in MS Word documents.

The template uses the correct page formatting and contains all the necessary styles. The styles are summarized in Table 1. At the same time Table 1 alongside with Table 2 in Materials and methods section show examples of tabular data formatting.

Table 1

Styles used in this template

|  |  |  |
| --- | --- | --- |
| **Style** | **Usage** | **Comments** |
| A\_article\_title | Use to format the title of the article | - |
| A\_name | Use to format first names and surnames of the authors | Separate each author’s name and surname using commas |
| A\_organization | Use to format the organization and contact information | Do not give the address of the organization |

Table 1 (continued)

|  |  |  |
| --- | --- | --- |
| **Style** | **Usage** | **Comments** |
| A\_abstract | Use to format abstract and keywords | Titles “**Abstract:**” and “**Keywords:**” leave in bold |
| A\_title | Use to format titles | - |
| A\_title\_num, A\_title\_num2 | Use to format titles using 2-level numbering | Authors can choose titles with or without numbering but the style should be kept consequently throughout the article |
| A\_text | Use to format plain text of the article | - |
| A\_figure | Use to format figures (if “In line with text” layout is used) and titles of the figures | Number of figure and explanations in the title should be in regular font, but the title itself in bold |
| A\_table\_number | Use to format the table number e.g. Table 1 | - |
| A\_table\_title | Use to format the table title | - |
| A\_table\_text | Use to format the table text | - |
| A\_formula | Use to format formulae | - |
| A\_formula\_variables | Use to format explanations of the variables | Add units of measure to each variable explanation |
| A\_reference | Use to format the reference list | - |
| A\_numbering | Use to format numbered lists | Try to avoid multi-level numbering |
| A\_bullet | Use to format bulleted lists | Try to avoid multi-level bulleting |
| A\_conclusions | Use to format conclusions as numbered list | - |

Materials and methods

Figures should be referenced in the text as “Figure 1” or “Fig. 1” (without quotes). Explanatory notes in figures can be shown using numbered callouts with comments in the title of the figure. The text in figures should be at least half of the font size as the main text of the article (text must be readable in printed version). Figures can also be used in colours.



2

1

Fig. 1. **Title of the figure:** 1 – clock; 2 – book

An example of experimental data plot can be found in Fig. 2. An example of graph of a function is given in Fig. 3. Fig. 4 shows an example of a column chart. Do not use 3D bar type charts. Smaller figures can be organized in a table (Fig. 5-8).

In order to achieve the best quality of the final look of the article it is recommended to supply all figures electronically in separate files. It is preferable to use the following file formats for illustrative data.

* Photographs, scans and other real-world images: jpg.
* Objects from analytical, modeling, design etc. software (plots, model diagrams, charts): wmf, emf, eps.
* Spreadsheet (e.g. Excel) objects like charts, plots, diagrams: in a separate xls file. If it is possible, please also supply source data for plots and charts.

Each file of the figure should be named in accordance to numbering in the article, e.g. “Fig1.jpg”.



Fig. 2. **Experimental U-I curve of 100 Ω resistor**



Fig. 3. **Phase between voltage and current**



Fig. 4. **Sample length by day**

Try to avoid placing screenshots of charts from various software if fonts on the chart are significantly smaller as the main text font of the article. If it is absolutely necessary to use screenshots, magnify key parts of them in a callout.

Also try to use consequent formatting style for block diagrams and flowcharts. If using photographs, it is advisable to use callouts to show key parts of the image.

|  |  |
| --- | --- |
|  |  |
| Fig. 5. **Hub motor A** | Fig. 6. **Hub motor B** |
|  |  |
| Fig. 7. **Hub motor C** | Fig. 8. **Hub motor D** |

Tables should be referenced in the text as “Table 2” (without quotes). Header row and other key cells can be pointed out using bold or italic font. Tables should consist of at least 3 columns and 4 rows. Try to arrange large tables on a single page. Leave 6 pt gap before the first paragraph coming after the table. Tables should not contain numbering column instead of it rows can be referenced in the text, e.g. as it can be seen from Table 2 the green is 99.50 mm and is the longest one, blue is 1.00 mm and is the shortest one. Give units of measurement after comma, do not use square brackets [ ]. If no unit is intended for a column (e.g. count), do not indicate it with “,-”. For large numbers more than 5 digits use exponential notation. Suffixes “thousand”, “million” can be used with currencies. Use hard-space as thousands separator and dot as decimal separator.

Width of tables and figures should not exceed the margins of the document.

Table 2

Title of the table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Color** | **Volume, m3** | **Length, mm** | **Count** | **Price, thousand EUR** |
| Red | 2 | 3.12 | 1.15·106 | 3.5 |
| Green | 44 | 99.50 | 2.36·106 | 2.0 |
| Blue | 10 | 1.00 | 1.70·106 | 1.7 |

Formulae and variable explanation should be formatted using appropriate styles. Authors can prepare formulae in any equations editor and insert them as pictures, but MS Equation editor is preferable. Formulae can be numbered throughout the article and referenced in the text using these numbers and round brackets (1). Placement of complex formulae in text should be avoided.

 , (1)

where *a* – variable one, units;

 *b* – variable two, units;

 *c* – variable three, units;

 *d* – variable three, units.

Constant numbers are in regular font. Give units of measurement after comma, do not use square brackets [ ]. Variables in formulae and text should be written in italic e.g. variable *a* is proportional to *b* and inversely proportional to *c*. Equation objects should not be used in plain text. Use only regular symbols if it is necessary to include mathematical expression in the text e.g. *a* + *b* = *c*. Use only short symbols explained right after the formula or text. Full-sized words are not allowed as variables, with exception of program code listings. For example use “*ncow*” instead of “*number\_of\_cows*”

Units of measurement with fractions should be written using power notation e.g. SI unit of speed is m·s-1. For currencies use ISO 4217 notation e.g. EUR, USD, LVL, currency signs should not be used. Use hard-space (Space+Shift+Ctrl) between value and units of measurement, including degrees and percents, e.g. 5 % and 5 ºC. Leave hard-space also before percent sign. Leave 6pt gap before the first paragraph coming after formula variable explanations.

Numbered lists should be formatted as follows:

Numbering;

Numbering;

Numbering.

Leave 6pt gap before the first paragraph coming after the numbered list. Formatting example of bulleted list:

* Bulleting;
* Bulleting;
* Bulleting.

Leave 6 pt gap before the first paragraph coming after the bulleted list.

References to other author’s work should be put in in text using square brackets [1]. More than one reference can be separated using semicolon for enumeration [2; 3; 5] (only the second, third and fifth reference) and dash [4-8] (all references from the forth to eighth). Reference examples in this template: book [1], journal article [2], conference proceedings [3], standard [4], reference in another language [5], online source [6] and online source in other language than English [7]. Use only approved scientific sources, statistics pages, manuals, datasheets, application notes etc. as online references. Product catalogues, advertisements, on-line shops, collaborative online encyclopaedias, forums and similar sources are not allowed. Do not leave hyperlinks formatting. List references in the order as they are cited in the text. **Strongly follow the given examples.**

References from indexed scientific sources are preferred. Self-citation should not exceed 20 %.

Results and discussion

This part of article should include textual, numerical and graphical representation of results of current research along with explanation and interpretation. Comparison to results of other author’s work and discussion is very recommended.

Conclusions

1. Conclusions can be represented using plain text or numbered using appropriate style.
2. Do not use references to literature in this section.
3. This section should only contain the main conclusions based on the present research.

Acknowledgements

Give acknowledgements here. This section is optional.

Author contributions:

Indicate the contribution of each author. Example: Conceptualization, V.B.; methodology, S.I. and V.N.; software, Y.I.; validation, A.A. and V.B; formal analysis, V.B and J.O..; investigation, V.B., S.I., V.N. and J.O.; data curation, A.A., V.B. an J.I.; writing—original draft preparation, V.B.; writing—review and editing, A.A. and V.B.; visualization, Y.I., V.N.; project administration, V.B.; funding acquisition, H.B. All authors have read and agreed to the published version of the manuscript.

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