

REQUIREMENTS
to the design of an article for publication in the journal
"The world of transport and technological machines"

GENERAL REQUIREMENTS

- Material submitted must be original and not previously published in other journals;
- volume of the submitted material is from 4 to 9 pages of A4 format; all pages of the manuscript should be sequentially numbered;
- the article should be submitted in digital form (e.g. via e-mail);
- in one journal there may be published only one article of one author, including co-authorship;
- post-graduate students are exempted from fees for the publication of manuscripts;
- if the article is returned to the author for revision, a revised version should be sent to the editor again, with attached letter with answers to reviewer's comments. Corrected version of the article is reviewed by the editorial board again. The date of submission of the material is considered to be the date of reception of the final version of the revised article;
- abstracts of all published materials, keywords, author information, reference lists will be available on the website of the journal and on the website of the Russian Scientific Electronic Library - RENE (Russian Science Citation Index).

REQUIREMENTS TO THE CONTENT OF A SCIENTIFIC ARTICLE

The scientific article submitted for publication should have the following elements:

- definition of a problem or a goal in a general way;
- analysis of achievements and publications, which propose a solution to a problem or goal, to which the author refers to, with an emphasis on a scientific novelty;
- research part;
- discussion of the results;
- conclusions of this study and prospects for further development of this area;
- a list of references to which the author refers to in its text.

In a text it is not recommended to use:

- colloquial language, technicalisms, professionalism;
 - different scientific and technical terms of similar meaning (synonyms) for description of the same thing;
 - random word formation;
 - inappropriate or incorrectly formed abbreviations;
- Acronyms and abbreviations must be decrypted right after the first mention in the text.

REQUIREMENTS TO THE FORMATTING OF A SCIENTIFIC ARTICLE

The article should be typed in font Times New Roman, 12 pt, single spacing, text aligned to the width; indentation - 1.25 cm, right margin - 2 cm, left margin - 2 cm, top and bottom - 2 cm.

Required elements:

- title (in Russian and English) of a published material - must be precise yet interpretative; words included in the title should be clear on their own, and not only in the context; recommended to avoid complex syntactic constructions, the new word-formations and terminology, as well as the words of narrow professional and local importance;
- abstract (in Russian and English) - describes goals and objectives of a research and its practical application, novelty of a presented material; recommended average volume - 500 characters;
- keywords (in Russian and English) - text labels using which you can find an article and to determine the subject area of a text; usually they are chosen from text of a published material, 5-10 keywords suffice;

- list of references should contain not less than 20 sources, designed according to GOST 7.1-2003.

STRUCTURE OF AN ARTICLE

- The index of the Universal Decimal Classification (UDC) - top left with indentation.
- Skipping one line - aligned, centered, no indentation and typed in uppercase light regular font 12 pt, initials and names of authors (IVANOV I.I.).
- Skipping one line - title of the article, typed without indentation in capital letters in bold 14 pt, and center aligned.
- Skipping one line - brief (no more than 10 lines) abstract, typed with indentation, 10 pt italics in Russian. After with indentation -keyword in Russian.
- Text of an article, typed in normal font 12 pt, width aligned.
- References, typed in normal 10 pt, placed at the end of an article. Title "**REFERENCES**" is typed in bold 12 pt, capital letters aligned to the center.
- After the list of references, with indentation, an information about the authors is located in the following sequence, typed in normal font 10 pt:
 - Last name, first name (in bold)
 - Institution or organization
 - Address
 - Degree, academic rank, position
 - E-mail (normal text)
- Skipping one line - aligned, centered, with no indentation, authors' initials and surname (in English) are typed in uppercase light regular font 12 pt,
- Skipping one line - title of the article, typed without indentation in capital letters in bold 14 pt, center aligned (in English).
- A brief (no more than 10 lines) abstract, typed with indentation italic 10 pt, then, with indentation - keywords (in English).

TABLES, FIGURES, FORMULAS

All tables, figures and formulas in a text, should be numbered.

Formulas should be typed in the editor Microsoft Equation 3.0 Formulas in the following sizes: regular font - 12 pt, large index - 10 pt, small index - 8 pt.

Formulas put as a picture are not allowed!

Russian and Greek letters, as well as designations of the trigonometric functions – normal font, letters - italics.

Formulas are located in the middle of the page and numbered (only those to which there exist a reference); the number of the formula is indicated by Arabic numerals in parentheses near the right margin.

In the formulas should be used symbols established by appropriate standards. Description starts with the word "where", no colon, no indentation; explanation of each symbol is given in a new line in the sequence, wherein the symbols in the formula are shown. Units are given in accordance with the International System of Units SI.

Continuation of a formula to the next line is permitted only on the signs of the operations, and the sign at the beginning of the next line is repeated.

Example of a formula in a text

$$q_1 = (\alpha - 1)^2 \left(1 + \frac{1}{2\alpha}\right) / d, \quad (1)$$

where $\alpha = 1 + 2a/b$ - a stress concentration factor;

$d = 2a$ - the size of the elliptical hole along the dangerous section.

Drawings and other illustrations (graphs, charts, diagrams, photographs) should be placed directly after the text in which they are mentioned first. Figures, the number of which should be logically justified, submitted as separate files in format * .eps (Encapsulated PostScript) or in TIF with a size of at least 300 dpi.

If the picture is small, it is desirable that it is wrapped by text.

Captions (bold italic 10 pt) are centered, with no period at the end:

Figure 1 - Caption

Explanatory information is typed in light italic font 10 pt and put after drawing.

Tables must be cross-referenced in the text. To reference, in text should be written "table" and its respective number.

Headings of graphs and tables are written with upper case letters, and sub-headings - with a lower case if they constitute one sentence with heading, or with a capital letter, if they have independent meaning. Period is not put at the end of headings and sub-headings. The text within the table depending on the amount of material being placed can be dialed in a smaller font size, but not less than 10 pt. Text in columns left aligned or centered.

The word "Table" is placed to the left, after a dash is the table name, eg:

Table 1 - Caption Text

If at the end of the page table is ruptured and continued on the next page, the lower horizontal line in the first part of the table is not drawn. When transferring the table to another page, above it is written the word "Continuation" and indicate the number of the table: Example: Continuation of Table 1

The numbering of the count tables with Arabic numerals is only necessary in cases where the text contains references to them, or when dividing the table into pieces, as well as when transferring a table on the next page.

EXAMPLE OF FORMATTING

UDC 004.023

E.G. ZHILYAKOV, V.I. LOMAZOVA, V.A. LOMAZOV

SELECTION OF ADDITIVE FUNCTIONAL MODELS OF COMPLEX SYSTEMS

Model representation of complex systems with the account of subsystem interaction is considered. Modeling methodic is suggested. It involves construction and study of a class of mathematical models, distinguished by the degree of subsystem relations, and genetic selection of models, most convenient for further exploitation.

Keywords: complex system; mathematical model; genetic algorithm; selection.

T e x t

BIBLIOGRAPHY

1. Buslenko, N.P. On the theory of complex systems [Text] / N.P. Buslenko. - Proceedings of the USSR Academy of Sciences. Technical Cybernetics, 1963. - №5.
2. System Analysis and Decision Making [Text]: the dictionary catalog / Ed. V.N. Volkova, V.N. Kozlov. - M.: Vyssh. shk., 2004. - 616 p.
3. Novikov, F.A. Discrete mathematics for computer programmers [Text]: a textbook for high schools / F.A. Novikov. - 3rd ed. - SPb.: Piter, 2008. - 384 p.
4. Samarskii, A.A. Math modeling. Ideas. Methods. Examples [Text] / A.A. Samarskii, A.P. Mikhailov. - 2nd ed. - M.: Fizmatlit, 2005. - 320 p.
5. Bioinspired methods in optimization [Text] / L.A. Gladkov, V.V. Kureichik, V.M. Kureichik, V.P. Sorokoletov. - M.: Fizmatlit, 2009. - 384 p.

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Zhilyakov Evgeniy Georgievich

Belgorod State University

Address: 302040, Russia, Belgorod, Soviet str, 25.

Doctor of Technical Sciences

E-mail: zhilyakov@bsu.edu.ru