

**Ministry of Transport of the Russian Federation
Federal Railway Transport Agency
JSC "Russian Railways"
Omsk State Transport University**



**IV All-Russian research and development conference with
international participation**

**«Maintainability of the Locomotive Fleet and
Improvement of Train Traction Efficiency»**

November 12, 2021

Omsk

THE TOPICS OF THE CONFERENCE INCLUDE:

- 1. The improvement of the rolling stock efficiency and maintainability.**
- 2. The use of VR, AR and IT technologies to improve the efficiency of locomotive employees.**
- 3. Artificial intelligence in the development of locomotive control systems.**
- 4. Dynamics and interaction of rolling stock and track. Train safety.**
- 5. Mathematical modeling in the development and operation of rolling stock at the stages of its life cycle. Creating "digital twins".**
- 6. Predictive diagnostics of the technical condition of parts, rolling stock power units and systems. The use of CAN buses, BigData, IoT, and AI technologies.**
- 7. Digital technologies for safety control and locomotive control when driving trains.**
- 8. Innovative technologies for managing the technical condition and utilization efficiency of locomotives. "Digital Locomotive". "Digital Depot".**
- 9. Resource and energy saving of train traction and rail traffic.**
- 10. Comprehensive development of workforce capacity in railway industry.**

THE CONFERENCE SITE: [link](#).

PARTICIPATION REQUIREMENTS

The conference will be held both as a face-to-face and distant communication.

The participation in the conference is free of charge.

The academic staff, managers, home and foreign professionals in transport and industry are invited to participate.

Each participant can submit one report without any co-authors and one report with co-authors. Having no report makes the participation in the conference possible. Remote participants can have a publication in the conference proceedings.

The conference proceedings in Russian will be included in the RSCI (Russian Science Citation Index). The publications in English will be included in the international reference database Scopus (see "Scopus Publications").

THE ADDRESS OF THE ORGANISING COMMITTEE

Department of Scientific Communications and Publishing Activity, Omsk State Transport University, 35, prospekt Marksa, Omsk, 644046.

Should you have any questions about the participation in the conference, do not hesitate to contact:

E-mail: program.omgups@gmail.com;

Tel./e-mail: +7 (923) 671-45-33 (Telegram, WhatsApp, [Facebook](#))

Kirill Domanov, The Head of the Department, Deputy Chairman of the Conference Organizing Committee.

IMPORTANT DEADLINES

<u>up to October 17, 2021</u>	submitting report theses in English
<u>up to November 01, 2021</u>	providing the full text of the article (report)
<u>November 12, 2021</u>	dates of the conference

**TO PARTICIPATE IN THE CONFERENCE
YOU NEED TO SUBMIT**

- the report thesis sent to e-mail: program.omgups@gmail.com;
- initials and surname, title, abstract, keywords and the article in English in electronic format (on any digital device or by e-mail: program.omgups@gmail.com), the file name should contain the last name of the first author: surname.doc. **THE SUBJECT OF THE EMAIL SHOULD INCLUDE THE DATES OF THE CONFERENCE (for example, November 12). THE ACCOMPANYING TEXT OF THE LETTER SHOULD SPECIFY THE TOPIC (for example, 4. Dynamics and interaction of rolling stock and track. Train safety.) and the form of participation: in-person or virtual (for example, in-person participation).**

The Organizing Committee is entitled to reject the submitted materials due to the violation of the submission deadlines or registration requirements.

**REQUIREMENTS FOR
THE REPORT THESES AND PUBLICATIONS**

Initials and surname (center alignment, 14 pt), the title of the report thesis and the title of the article (the center alignment, in capital letters, bold type, 14 pt), the abstract and the keywords (no more than 15) (italics, width alignment, 12 pt);

the report thesis and the article should be typed in Word Editor, page size: A4 format (210 × 297 mm);

field width, mm: left, top, right-20, bottom-32;

the size and type of the font in the main text is Times New Roman, 14 pt;

the Latin letters are typed in italics, the Greek and Russian letters are typed in upright font;

the text in the tables, captions and table names are typed in Times New Roman, 14 pt;

line spacing is 1.15, line indent is 1.5 cm;

each figure is to be additionally given in the original file (JPEG or TIFF format, with resolution no less than 300 pixels / inch);

the figures made in Word Editor should be inserted as an object;

references in the report thesis and the article are indicated in square brackets, the list of references should be entitled as List of references (no more than 10 sources), the bibliography of the sources should follow the requirements of GOST R 7.0.100-2018.

The number of co-authors should not exceed five people. The recommended size of the report thesis is no more than 2 pages, for the articles it is 5-7 pages. Illustrations, diagrams, tables included in the thesis of the report and the article are added to the total size of the text.

The authors should avoid repeating the same data in tables, graphs, in the report thesis and the article.

The end of the article should contain the information about the authors (last name, first name, patronymic name, academic degree and title, organization with postal address, title, phone number, E-mail) in English.

Materials neglecting the abovementioned requirements will not be accepted for publication and will not be returned to the sender.

The Organizing Committee is entitled to edit the content of the article without the authors' consent.

A SAMPLE OF REPORT THESIS AND THE ARTICLE

S. G. Istomin

THE ANALYSIS OF ENERGY EFFICIENCY TARGETS

Abstract. Abstract. Abstract.

Keywords:

When designing a regulatory framework for energy saving and energy efficiency improvement...

$$\text{Character} = \frac{\text{character}}{\text{character}} \quad (1)$$

Reliable information for determining the main parameters is given in Table 1.

Table 1

Research outcomes				

The types of energy resources are shown in Figure 1.

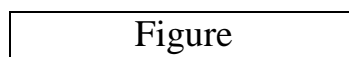


Figure 1. Types of energy resources

References

Are styled according to GOST R 7.0.100–2018

INFORMATION ABOUT THE AUTHORS

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SCOPUS PUBLICATIONS

requirements:

The conference participants' reports (articles) can be indexed in Scopus international abstract database.

The registration fee for a Scopus publication is 150 € (one hundred and fifty EUR) for 1 article in the conference proceedings. The payment is made in rubles.

The exchange of rubles into EUR is made on the day of signing the contract to publish an article at the rate of the Central Bank of Russian Federation set for 3: 00 pm (Moscow time). The publication is FREE for academic staff from Omsk State Transport University.

Translating technical articles (when required) costs 650 rubles for 1000 characters with spaces.

Editing (when required) is 3000 rubles for 1 article (if you are not able to design an article according to the template, you can order this service too).

After the article is accepted to be published, you will receive an email with notification and the article layout for final approval before the article is published.

The registration fee must be paid only after the contract for the forthcoming publication is concluded. Please note that if the registration fee is not duly paid, your article will not be published.

Dear colleagues, we kindly ask you to make sure that all the materials (articles) sent to the organizing committee of the conference have not been previously published in any journals (including those in Russian).

Most journals require the authors to sign a License agreement. The Consent to a Publication will also be sent to you. After the layout is approved of and a signed License agreement is received, you will be sent the payment details to secure your participation in the conference.

requirements for Scopus articles:

1. The minimum size of the article is 6 pages plus [References](#) (font 10, single spacing).
2. The portrait page size only.
3. The structure of the article must comply with the [IMRAD](#) standard.
4. Image Requirements:

All the images should be clear and easy to read.

4.1. If you submit an article in English:

– the Cyrillic characters in the article (including formulas, graphs, schemes, diagrams, program screenshots and any images) are not allowed!!!

4.2. If you submit an article in Russian:

– All formulas, graphs, and diagrams must be editable for further translation.

5. The sources of all images should be specified unless they are your own. The source of the figure should be indicated in the caption.

6. The number of authors in one article should not exceed five people.

7. All articles will be checked for plagiarism. If plagiarism (as well as self-plagiarism) is detected, the authors will be refused to resubmit the article.

Information for the authors of Scopus publications: [here](#).

Should you have any questions about Scopus publications, please contact the organizing committee:

E-mail: program.omgups@gmail.com;

Phone/e-mail: +7 (923) 671-45-33 (Telegram, WhatsApp, vk.com/kdomanov)

Kirill Domanov, The Head of the Department, Deputy Chairman of the Conference Organizing Committee.