

WE INVITE YOU TO PARTICIPATE IN

International multidisciplinary scientific and practical Internet conference for young researchers, applicants for higher education and scientists "MODERN SCIENCE: INNOVATIONS AND PERSPECTIVES" 6-7 April 2023 Kyiv city, UKRAINE



The conference is included in the plan of the Ministry of education and science of Ukraine for 2023 and is registered with the State Scientific Institution “Ukrainian Institute of Scientific and Technical Information (UkrINTEI)”. The Kyiv Institute of Railway Transport of the State University of Infrastructure and Technology (Ukraine) holds the conference.

ORGANIZERS

1. Ministry of Education and Science of Ukraine
2. Kyiv Institute of Railway Transport of the State University of Infrastructure and Technologies, Ukraine
3. Ukrainian State University of Railway Transport
4. Volodymyr Dahl East Ukrainian National University, Ukraine
5. University of Žilina, Country Slovak republic
6. University of Warmia and Mazury in Olsztyn, Faculty of Technical Sciences, Republic of Poland
7. Brno University of Technology, Faculty of Mechanical Engineering, Czech Republic
8. Tafila Technical University, Jordan

PURPOSE OF HE CONFERENCE

- exchange of scientific and technical information, study of promising ways and modern research between domestic and foreign scientists
- expanding the scientific outlook of researchers from the relevant fields of knowledge
- informing a wide range of scientists and practitioners about existing contemporary problems in the fields
- dissemination of best practices in scientific and practical research
- Establishing contacts, establishing links between specialists in scientific, educational and industrial domestic and foreign institutions
- attraction of scientists and specialists from various departments to cooperation in solving topical modern scientific problems

THEMES OF THE CONFERENCE

Section 1: Innovations in the transport industry and technologies

Section 2: Electrical engineering

Section 3: Energy saving and energy efficiency in technology

Section 4: Automation and intelligent design of technical systems

Section 5: Electronics and instrumentation engineering

Section 6: Management and administration in industries

Section 7: Agricultural Science and Technology

Section 8: Mechanical Engineering

Section 9: Current trends in the development of metrology and information and measurement technologies

Section 10: Economics, finance and economic security of enterprises

Section 11: Marketing, Management and Logistics

Section 12: Problems of development of civil, international and economic law

Section 13: Topical issues of modern psychology

CONFERENCE AGENDA

Acceptance of applications for participation and materials for publication: inconferencesyit@gmail.com	until March 31, 2023
Consideration of the submitted materials by the members of the scientific committee of the conference	April 6, 2023
Summing up the conference	April 7, 2023
Publication of conference materials on Internet resources	April 25, 2023
Obtaining an electronic collection of conference materials and certificates of participation	April 25, 2023

TERMES AND CONDITIONS OF PARTICIPATION

To participate in the work of the scientific conference, you must send by March 31, 2023 to the email address of the organizing committee inconferencesyit@gmail.com:

- a) application for participation in the conference (Annex No. 1);
- b) articles to the collection of materials, designed in accordance with the requirements (Annex No. 2).

Working languages of the conference: Ukrainian and English.

Form of participation: distance.

Participation in the conference is free of charge.

After the end of the conference, the submitted articles and abstracts will be included in the electronic collection of materials of the International multidisciplinary scientific and practical Internet conference for young researchers, applicants for higher education and scientists "MODERN SCIENCE: INNOVATIONS AND PERSPECTIVES" 2023, which will be posted in scientific Internet resources.

Each participant will be provided with an electronic collection of conference materials and a certificate of participation in the conference.

ELECTRONIC COLLECTION OF MATERIALS OF THE CONFERENCE AND CERTIFICATES OF PARTICIPATION IN THE CONFERENCE (ELECTRONIC VERSION) WILL BE PLACED ACCORDING TO THE CONFERENCE AGENDA ON THE LINK :
https://drive.google.com/drive/folders/1jOwj7XIPc0gV4X-JiJmzY0onAH01aVxV?usp=share_link

CONTACT INFORMATION

Questions regarding the conference and the preparation of abstracts of reports, send by e-mail: inconferencesyit@gmail.com.

Chairman of the Organizing and Publishing Committee: Gubarevych Oleg, Ph.D., Associate Professor, Department of Electromechanics and Rolling Stock of Railways of Kyiv Institute of Railway Transport of State University of Infrastructure and Technologies.

Executive Secretary: Golubieva Svitlana, Senior Lecturer of the Department ship power units, auxiliary mechanisms of ships and their operation of the State University of Infrastructure and Technologies.

Conference materials technical editor: Malyuk Sergiy, Senior Lecturer of Department of Electromechanics and Rolling Stock of Railways of Kyiv Institute of Railway Transport of State University of Infrastructure and Technologies.

Technical secretary: Zaika Denys, Assistant Lecturer of Department of Electromechanics and Rolling Stock of Railways of Kyiv Institute of Railway Transport of State University of Infrastructure and Technologies.

Annex No. 1

STATEMENT

participate in International multidisciplinary scientific and practical Internet conference for young researchers, applicants for higher education and scientists "MODERN SCIENCE: INNOVATIONS AND PERSPECTIVES" 2023

For each author

1.	First name, last name
2.	Country
3.	City and institution name
4.	Academic title, scientific degree, position or educational current degree of study
5.	E-mail
6.	Section name
7.	Article title

Annex No. 2

REQUIREMENTS FOR THE DESIGN OF MATERIALS

Electronic version of the article in the form of a file Microsoft Word (.docx) with the name: the section number and the first author's last name (5_Petrenenko) must be sent by e-mail to the following e-mail address: inconferencesyit@gmail.com.

The volume of the article is 2-4 pages, and submitted in the following format:

- page format – A4, all margins are 2 cm;
- the main text should be submitted in the format: Times New Roman 14 pt. font, line spacing 1.15; data about authors and literature – 13 pt. font, line spacing 1.0;
- section number and name – 14 pt. font (*italics*, centered);
- article title – 14 pt. font, all caps, **bold**, centered, line spacing 1.0);

- after 1 empty line – surnames and initials of authors (***bold, italics***), academic title, scientific degree, or educational current degree of study, e-mail (normal font, centered) – 13 pt. font, line spacing 1.0;

- next line – name of the institution (*italics*, centered – 13 pt. font, line spacing 1.0);

- next line – author's country and city (*italics*, centered – 13 pt. font, line spacing 1.0);

- after 1 empty line abstract up to 10 lines is provided (*italics* –14 pt. font, line spacing 1.0);

- keywords are given after the annotation on a new line (from 5 to 8 words, *italics* –14 pt. font, line spacing 1.0);

- after 1 empty line the main text is presented without hyphens, line spacing 1.15, paragraph indent – 1 cm;

- references in the text shall be given in square brackets indicating the serial number of the source [3]. Reference to multiple sources at the same time are provided as follows: [1, 3, 7]. Sources in the list of references are numbered manually, without using the Word menu function “Format – List – Numbered”;

- references is placed one line after the main text in the order of their use in the text (no more than 7 sources), in accordance with the requirements for scientific articles and bibliographic sources of the APA style (13 pt. font, line spacing 1.0);

- obligatory structural elements of the article are: **relevance of the work, research purpose, main text, conclusions and a references;**

- pages should not be numbered.

All figures and tables shall have titles and numbers (if one material contains two or more elements) written in italics, for example: «*Figure 1 – Calculation scheme ...*» or «*Table № 1 – Indicators...*» (13 pt. font, line spacing 1.0).

Responsibility for the materials indicated in the article lies with the authors and supervisors (for applicants). The editors may not share the scientific position of the authors of the publication. When editing and preparing the collection, the editors reserve the right to change sections, reasonably edit and correct materials while maintaining the text and style of the author.



SAMPLE THE DESIGN OF MATERIALS

Section 5: Electronics and instrumentation engineering

RESEARCH OF VIBRATION DIAGNOSTIC EQUIPMENT OF ELECTROMECHANICAL SYSTEMS

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Abstract. *The paper analyzes the use of vibration diagnostic methods to monitor the condition of induction motors with a squirrel-cage rotor, which are used in electric drives of transport equipment. Currently, in transport systems, as part of the main and auxiliary equipment, a large number of induction motors with a squirrel-cage rotor of different capacities are used. Their wide application in the transport industry is associated with the main advantages over other types of machines – fairly high reliability, low cost and ease of maintenance. However, during the operation of these motors, a number of malfunctions can occur that affect the deterioration of the performance of the entire drive, the accuracy of its functions, or accelerate an emergency stop.*

Keywords: *vibration diagnostics, simulation modeling, induction motor, stator field asymmetry*

Relevance of the work conditioned

Research Purpose is to conduct an overview analysis of vibrational processes of various nature occurring in electrical machines, as well as the analysis of modern methods for detecting faults and assessing the technical condition of electrical equipment by vibration parameters [1].

Main text.....

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Conclusions. As a result of the analysis, it was found

References

1. Asfani, D. A., Negara, I. M. Y., Hernanda, I. G. N. S., Fahmi, D., Muljadi, E., & Nelms, R. M. (2020, October). Methods to Deter006Dine the Stator Inter-turn Short Circuit in an Induction Motor with Installed Rotor. In: *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, 7-13.
2. Wissam Dehina & Mohamed Boumehraz (2022). Experimental investigation in induction motors using signal processing techniques for early detection of inter-turn short circuit faults, *International Journal of Modelling and Simulation*, 42:5, 855-867.
3. Goolak, S., Riabov, I., Tkachenko, V., Saprionova, S., & Rubanik, I. (2021). Model of pulsating current traction motor taking into consideration magnetic losses in steel. *Electrical Engineering & Electromechanics*, (6), 11–17.

We invite you to cooperate!