



**From Alpha to Omega by the road of IT
You will succeed with the Maths Faculty!**



**XIII Republican Scientific and Practical Conference and Contest of
research papers for students of vocational schools and higher
education institutions**

«From Alpha to Omega...» (involving International participants)

**Grodno, Belarus
April 28-29, 2023**

FIRST INFORMATION LETTER

The Organising Committee of **XIII Republican Scientific and Practical Conference and Contest of research papers for vocational schools and higher educational institution students «From Alpha to Omega...» (involving International participants)** informs that the conference will be held in two stages in Yanka Kupala State University of Grodno at the Faculty of Mathematics and Informatics April 28-29, 2023.

The participants and other individuals will be informed about the clarified date and time by the second information letter and on the official website of the Faculty due regard of applies and preliminary review of papers sent.

The aim of the conference is to identify and support talented and capable schoolchildren and students who are passionate about science; to provide professional guidance and to involve young people into scientific work and research activity.

In 2023, the main sections of the conference are:

- **Algebra, Geometry and Mathematical Analysis;**
- **Applied Mathematics;**
- **Computer Sciences and Programming;**
- **Robotics and Artificial Intelligence;**

The agenda provides for the preparation and presentation of pupils and secondary institution students' research papers, higher educational institution students' research articles; presentation of the participant's research results, discussions, **contests**, awards for the best papers, presentation of scientists, roundtable discussions for research advisors and teachers.

Pupils, students of secondary and higher educational institutions of The Republic of Belarus and abroad are invited to participate.

The participants have an opportunity to represent the results of their research activities in Mathematics and Computer Science. The results of scientific, research, creative and experimental activities performed *individually* or *by creative team* may be presented.

After the conference, all participants and research advisers will be awarded a certificate for

participation in electronic form by e-mail, while the youngest participants will receive Young Researcher diplomas in electronic form. The winners of the competition will be awarded diplomas of three levels in electronic form.

Gifts for participants and prizes for the winners are provided by the sponsors of the Conference and the Faculty of Mathematics and Informatics

The requirement for the publication of the research results is a positive review by the organizing committee and successful performance at the conference (offline or remotely by video conference). The Conference languages are Belarussian, Russian and English. The presentation duration is ***up to 5 minutes***.

ATTENTION! An English-language section will be held. The paper on any of the sections of the Conference may be submitted in English. However, the author(s) may opt to publish it in either English or Russian.

The articles of students and **the abstracts** of schoolchildren are to be published traditionally in the form of electronic conference proceedings after Conference.

Note, students shall submit research articles as well as schoolchildren shall submit abstracts containing personally obtained research results for publication.

The depositing conference proceedings and its uploading on the Internet are envisaged which ***will make the electronic publications equal to printed works***. The schoolchildren's abstracts and the student's articles will be published at the Faculty website and the Yanka Kupala State University of Grodno OPAC.

Note. The requirements for the research papers for schoolchildren and students are different!

The requirements are available on the official Faculty website <http://mf.grsu.by> (or <https://testmf.grsu.by>): «Science» – «From Alpha to Omega...» Conference.

Projects submitted to the «Robot Combat» Competition Exhibition shall meet the safety and technical aesthetic requirements and shall be supplied with an A4 format data sheet containing information about the author (team of authors) and a brief description of the invention. The data sheet shall be filled out by the participant. The project shall be entertaining and creative.

The materials that do not correspond to the requirements will not be reviewed.

The application should be submitted and **the materials** should be sent to the Organizing Committee in accordance with the **deadline**.

The main event dates:

- from March 15, 2023 – submission of ***e-applications*** for participation in the conference on <http://mf.grsu.by> (or <https://testmf.grsu.by>);
 - till April 15, 2023 – submission of materials (articles, abstracts),
 - ***obligatory electronic*** version to the alfa.mf@grsu.by.
- Please wait for confirmation from the Organising Committee on receiving of materials. Otherwise, contact the Organising Committee.

The file (article, abstract) name should contain the name of section (ENG – the English-language section), underscore, name and surname of the participant. For example – *Applied Mathematics_IvanovN.docx*; *Artificial Intellegemce_SidorovI.docx* or *ENG_JasonB*). If the work is prepared by creative team, the name should contain a surname of one of the members. The email subject line should also contain the name, the name of section, name and surname. (*ENG_JasonB*)

All entries who have registered for the Conference will be notified about application outcome by email specified in the application form.

The participation of pupils and students is free of charge. The costs and travel expenses for accompanying persons are covered by the sending institutions.

We inform you, that in case the epidemic situation is satisfactory and the organisation and holding of public events are allowed, the Conference will be held in full-time form. It will also be possible to participate and present remotely.

Organising Committee of the Conference

Alena Livak, Dean of the Faculty of Mathematics and Informatics, Associate Professor of the Department for System Programming and Computer Security, PhD (the Chairperson)

Tatsiana Vankova, Deputy Dean of the Faculty of Mathematics and Informatics, Associate Professor of the Department for Mathematical Analysis, Differential Equations and Algebra, PhD (the Deputy Chairperson).

Anna Deitseva, Associate Professor of the Department of Advanced Programming Techniques, PhD (head of the *Computer Sciences and Programming* section)

Liudmila Detchenya, Associate Professor of the Department for Mathematical Analysis, Differential Equations and Algebra, PhD (head of the *Algebra, Geometry and Mathematical Analysis* section).

Anna Karkanitsa, Head of the Department of Advanced Programming Techniques, Coordinator of the International Activities of the Faculty of Mathematics and Informatics, PhD (head of the *English-language* section).

Andrei Kuzmich, Deputy Dean of the Faculty of Mathematics and Informatics for research work, Associate Professor of the Department of Fundamental and Applied Mathematics, PhD (The Deputy Chairperson).

Anna Sazonova, senior lecturer of the Department of System Programming and Computer Security, Deputy Dean for ideological and educational work (head of *Robotics and Artificial Intelligence* section).

Alena Setko, Associate Professor of the Department of Fundamental and Applied Mathematics, coordinator for the work with talented and gifted youth of the Faculty of Mathematics and Informatics, PhD (head of the *Applied Mathematics* section).

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Faculty website: <http://mf.grsu.by> (or test website <https://testmf.grsu.by>)

Conference section: http://mf.grsu.by/NauchRab/a_z
(or <https://testmf.grsu.by/index.php/science/alpha>)

In case of problems and disputable issues you can contact:

- the Chairperson of the Organizing Committee, Dean of the Faculty of Mathematics and Informatics Alena Livak (0152) 39 50 41, livak@grsu.by;
- the Deputy Chairperson of the Organizing Committee, the Deputy Dean of the Faculty of Mathematics and Informatics Tatsiana Vankova (0152) 39 41 39, vankova_tn@grsu.by.