



Ministry of Science and Higher Education of the Russian Federation  
Federal State Budgetary Educational Institution of Higher Education "Dagestan State University"

**XVI International Scientific Conference  
"FUNDAMENTAL AND APPLIED PROBLEMS OF MATHEMATICS  
AND COMPUTER SCIENCE"**

**FIRST ANNOUNCEMENT AND CALL FOR PAPER**

The XVI International Conference "Fundamental and Applied Problems of Mathematics and Computer Science" will be held at Dagestan State University from September 17 to 20, 2025

**Important dates:**

08/20/2025 - deadline for applications with the title of the report;  
09/01/2025 - deadline for abstracts;  
09/10/2025 - deadline for articles;  
09/16/2025 - arrival day;  
09/17/2025 - opening of the conference;  
09/20/2025 - closing of the conference.

**ORGANIZING COMMITTEE**

**Chairman:** Rabadanov Murtazali Khulatayevich – D.Sc. in Phys. and Math., Professor, Rector of DSU

**Deputy Chairman:** Yakubov Amuchi Zagirovich – Ph.D., Associate Professor, Dean of Physics and Mathematics

**Members of the organizing committee:**

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Beibalaev V.D. – D.Sc. in Phys. and Math., Associate Professor (Russia, Makhachkala, DSU)  
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Lawrence S.A. – Ph.D. in Phys. and Math., Associate Professor (Russia, Moscow, RGUTiS)  
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Rizaev M.K. – Ph.D. in Phys. and Math., Associate Professor (Russia, Makhachkala, DSU)  
Sharapudinov T.I. – PhD (Russia, Makhachkala, DFRC RAS)

## **PROGRAM COMMITTEE**

**Chairman:** Magomedov A.M. – D.Sc. in Phys. and Math., Professor, Head of the Department of Discrete Mathematics and Informatics.

### **Members of the program committee:**

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Alkhasov A.B. – D.Sc. in Engineering, Professor (Russia, Makhachkala)  
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Chandra Swarniv – Ph.D., Asst. Professor (India, West Bengal)  
Chistyakov A.E. – D.Sc. in Phys. and Math., Associate Professor (Russia, Rostov-on-Don)  
Feiziev F.G. – D.Sc. in Phys. and Math., Professor (Azerbaijan, Sumgait)  
Gaisin A.M. – D.Sc. in Phys. and Math., Chief Researcher (Russia, Ufa)  
Hristov Jordan – Professor (Bulgaria, Sofia)  
Kadiev R.I. – D.Sc. in Phys. and Math., Professor (Russia, Makhachkala)  
Khan Zahid Husain – Professor (India, New Delhi)  
Kozhanov A.I. – D.Sc. in Phys. and Math., Professor (Russia, Novosibirsk)  
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Kusraev A.G. – D.Sc. in Phys. and Math., Professor (Russia, Vladikavkaz)  
Maksimov V.P. – D.Sc. in Phys. and Math., Professor (Russia, Perm)  
Mamchuev M.O. – D.Sc. in Phys. and Math., Chief Researcher (Russia, Nalchik)  
Moskalev P.V. – D.Sc. in Phys. and Math., Associate Professor (Russia, Moscow)  
Parovik R.I. – D.Sc. in Phys. and Math., Leading Researcher (Russia, Kamchatka region)  
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Serbina L.I. – D.Sc. in Phys. and Math., Professor (Russia, Stavropol)  
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Sukhinov A.I. – D.Sc. in Phys. and Math., Professor, Corresponding Member of RAS  
(Russia, Rostov-on-Don)  
Tarasov V.E. – D.Sc. in Phys. and Math., Professor (Russia, Moscow)  
Yerusalimsky Ya.M. – D.Sc. in Engineering, Professor (Russia, Rostov-on-Don)

### **Dear colleagues!**

Dagestan State University invites you and your colleagues to take part in the XVI International Scientific Conference "Fundamental and Applied Problems of Mathematics and Computer Science".

### **Main areas of the conference**

The conference will consider fundamental and applied issues of mathematics, computer science, including for solving problems in the field of physics. The following sections will work at the conference:

1. Differential equations, mathematical analysis and their applications.
2. Mathematical modeling and computational methods.
3. Discrete mathematics and related issues of computer science.

The working languages of the conference are Russian and English.

The conference will be held at the Dagestan State University (Makhachkala, Magomed-Gadzhiev Street, 43A).

The collection of materials of the International Conference "Fundamental and Applied Problems of Mathematics and Computer Science" is expected to be published at the beginning of the conference. Articles based on the conference materials are published in the scientific journal "Bulletin of Dagestan State University " (included in the list of the Higher Attestation Commission of Russia, indexed by several databases, articles are assigned an international DOI index).

The authors are responsible for plagiarism, the accuracy of the facts, statistics and other information, as well as confirmation of the presence of those not related to open publication. The organizing committee reserves the right to reject the received materials if they do not meet the established requirements or the topic of the conference (*the originality of the abstracts must be at least 70%*).

The organizational fee for the on-site participation in our conference is 2.500 Russian Rubles.

You can register for participation in the conference by sending an application by e-mail to the conference address [inter.conference.dsu@bk.ru](mailto:inter.conference.dsu@bk.ru).

### **Application for participation**

1. Last name, first name, patronymic (or second name(s) if it is).
2. Academic degree, academic rank.
3. Place of work, position (name of organization – full and abbreviated).
4. Form of participation (in-person with plenary or sectional report, in-person without report as a listener, in absentia with publication of report in the collection of materials).
5. Section.
6. Title of report.
7. Postal address of organization.
8. Telephone.
9. E-mail.

### **Rules for formatting conference materials**

Text format: Microsoft Word (\*.docx), font type is Times New Roman, page format is A4, orientation is portrait, line spacing is one and a half, all margins are 2 cm, font size is 14 pt.

You can choose Russian (it is preferable for Russian participants and should be accompanied by the translation of some items in English) or English language for the abstract.

### **For the Russian language materials:**

Universal Decimal Classification (UDC) index is placed in the upper left corner of the first page. The following items are placed (each item on a new line): the author's last name, first name, and patronymic (in Russian and English); the name of the organization and city (in Russian and

English) in lowercase letters; the e-mail address of each author of the article; the centered title of the article in Russian and English - in lowercase bold font. Then the brief abstract is placed in Russian and English (italics, no more than 6 lines). After the brief abstract should be keywords in Russian and English (italics, no more than 6 words). Afterword there should be the text of the article and a list of references, formatted in accordance with Russian GOST requirements.

#### **For the English language materials:**

Universal Decimal Classification (UDC) index is placed in the upper left corner of the first page. The following items are placed (each item on a new line): the author's last name, first name, and patronymic (or second name(s) if it is); the name of the organization and city in lowercase letters; the e-mail address of each author of the article; the centered title of the article in Russian and English in lowercase bold font. Then the brief abstract is placed in Russian and English (italics, no more than 6 lines). After the brief abstract should be keywords in Russian and English (italics, no more than 6 words). Afterword there should be the text of the article and a list of references, formatted in accordance with Russian GOST requirements (see the example).

The size of the conference material should be not more than 3 pages.

The size of the paper to the "Bulletin of Dagestan State University " should be not more than 10 pages.

#### **Sample of materials formatting**

##### **English language material:**

UDC

Doe John

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#### **Analytical study of non-local heat transfer processes**

*Abstract*

*Keywords:*

Text. Text. Text.

#### **Reference**

1. *Oldham K.B., and Spanier J.* The fractional calculus: theory and applications of differentiation and integration to arbitrary order. – New York: Academic Press, 1974. – 234
2. *Beybalaev V.D., Abduragimov E.I., Yakubov A.Z., et al.* Numerical research of non-isothermal filtration process in fractal medium with non-locality in time // Thermal Science. – 2021. – V. 25. – Issue 1. – Part B. – P. 465-475.

**Russian language materials:**

UDC

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### **Численное исследование нелокальных процессов теплопереноса**

### **Numerical study of non-local heat transfer processes**

*Аннотация*

*Abstract*

*Ключевые слова:*

*Keywords:*

Текст. Текст. Текст.

### **Литература**

3. Алишаев М.Г., Розенберг М.Д., Теслюк Е.В. Неизотермическая фильтрация при разработке нефтяных месторождений: монография. – Москва: Недра, 1985. – 271 с.
4. Головизнин В.М., Киселев В.П., Короткин И.А., Юрко Ю.И. Прямые задачи неклассического переноса радионуклидов в геологических формациях // Известия РАН. Энергетика. – 2004. – № 4. – С. 121–130