

**LIST  
OF THE MOST SIGNIFICANT SCIENTIFIC WORKS  
GRIGORIEV SERGEY GEORGIEVICH  
(in English)**

**Theses**

1. The application of Galerkin methods for the solution of one-phase Stefan problems.- The dissertation on competition of a scientific degree Phys.-Mat. Kazan, KSU, 1982, 130 p. (Link to direct access to the work: <https://dlib.rsl.ru/01008797991>)
2. The application of Galerkin methods for the solution of one-phase Stefan problems.- The dissertation on competition of a scientific degree Phys.-Mat. Kazan, KSU, 1982, 16 p. (Link to direct access to the work: <https://dlib.rsl.ru/01008719382>)
3. Implementation of logical programming system for personal computers with limited resources and its application. - Thesis for the degree of doctor of technical Sciences, M. MIP, 1993, 186 p. (Link to direct access to the work: <https://dlib.rsl.ru/01002162630>)
4. Implementation of logical programming system for personal computers with limited resources and its application. – Abstract of the thesis for the degree of doctor of technical Sciences, M. MIP, 1993, 36 p. (Link to direct access to the work: <https://dlib.rsl.ru/01000100725>)

**Research reports**

1. Technical report No4 on the topic, 2918.// NIO KAI, 1975, 56 p. (in co-authorship of Matrosov V. M., Timofeev V. I.)
2. Technical report No1 on topic 2920.// NIO KAI, 1975, 42 p. (in co-authorship of Fatkhullin E. F., Divakov O. G.)
3. Technical report No4 on the topic, 2918.// NIO KAI, 1976, 50 p. (in co-authorship of Matrosov V. M., Timofeev V. I.)
4. Study of the temperature field inside the functional container placed in the SHHI refrigerator cabinet.// A scientific report of the Mary State University, 1983, X/D No3, 35p.
5. The system of collection and processing of experimental information.// A scientific report of the Mary State University, 1984, X/D No3, 30p.
6. Development of microprocessor system for diagnostics and control of the refrigerator cabinet.// A scientific report of the Mary State University, 1984, X/D No3, 30p.
7. Development of a logical programming system Prolog-D - for personal computers IBM/PC and its use for creating expert systems.// Report g/b NIR Mary State University, Yoshkar-Ola, 1990, 106 p. ( in co-authorship of Shlenskov S. N., Urtmintcev A. G.)
8. Recommendations on the use of computer technology for educational institutions of the Ministry of defense.// Report research ININFO, 1993.- 30 p. (in co-authorship of Ryazansky M.V.)
9. Analysis of the regional network of educational purpose.// Report research ININFO, 1993.- 20 p. (in co-authorship of Pakhomova N. Yu.)
10. The local network of the KUVT from the modern point of view. // Report research ININFO, 1993.- 30 p. (in co-authorship of Ryazansky M. V., Parnasov A. V.)
11. Report on the research work of the Institute of Informatization of education in 1993 – 150 p.// Report of research ININFO, 1993.- 30 p. (in co-authorship of

Vagramenko J. A., Kolykhalov P. V., Moroz V. K., Ryzhov V.K., Marchenko E.K., Korolev E. V., Galkina A. I., Shchegolev A. G.)

12. Analysis of research and development in the field of Informatization of education.// Report research ININFO, 1993.- 150 p. (in co-authorship of Vagramenko J. A. Kolykhalov, P. V., Moroz, V. K., Ryzhov, V. A., Marchenko, E.K., Korolev, V. A., Galkina, A. I., Zaprudsky, B. I., Pronina, L. I., Gutkina, E. I. , Jakubtsceva, L.A.)

13. Recommendations to the teacher on the use of software. Recommendations to developers on the implementation of software support for the course of Informatics for secondary schools.// Report research ININFO, 1993.- 45 p.

14. Report on the research work of the Institute of Informatization of education in 1994. // Report research ININFO, 1994.- 120 p. (in co-authorship of Vagramenko J. A., Kolykhalov, P. V., Moroz, V. K., Ryzhov, V. A., Marchenko, E.K, Korolev, V. A., Galkina A. I.)

15. Analysis of research and development in the field of Informatization of education.// Report research ININFO, 1994.- 120 p. (in co-authorship of Vagramenko J. A. Kolykhalov, P. V., Moroz, V. K. Ryzhov, V. A., Marchenko, E., Korolev, V. A., Galkina A. I.)

16. Report on the research work of the Institute of Informatization of education in 1995 .// Report research ININFO, 1995.- 138 p. (in co-authorship of Vagramenko J. A., Moroz, V. K. Ryzhov, V. A., Marchenko, E.K, Galkina, A. I.)

17. Analysis of research and development in the field of Informatization of education .// Report research ININFO, 1995.- 130 p. (in co-authorship of Vagramenko J. A., Moroz, V. K. Ryzhov, V. A., Marchenko, E.K, Galkina, A. I.)

18. Analysis of the provision of computer training programs of the educational process of secondary school.// Report research ININFO, 1995.- 158 p. (in co-authorship of Beshenkov S. A., Smolnikova I.N., Chehlova A.V., Ryazansky M. V.)

19. Research of perspective technologies - development and distribution of pedagogical software products.// A report on State research project "Informatization of education in Russia",1995, 96 p. (in co-authorship of Ryzhov, V. A., Ryazansky, M. V., Cechlova, A. V.)

20. Report on the research work "Development of the Prologue-B version for use in Kazakh schools on IBM-compatible techniks".// Almaty, depon. in Kazgosinti inv No 0298PK00284, Reg No 0198PK000621998 (in co-authorship of Bidaibekov E. Y. , Talpakov N. A., Grinshkun, V.V., Serkebayev B.K.)

21. Lists and components of software packages as part of teaching kits for the course of Informatics for basic General and secondary (complete) General education (basic and specialized levels), elective courses and project activities of students".// The report on research work, Institute of content and teaching methods.-RAO / M.: 2006, State contract Nop538 of 11.11.20067.- 619 p. (in co-authorship of Kuznetsov A. A., Grinshkun V. V., Levchenko I. V., Zaslavskaya O. Yu., Rybakov D. S., Kornilov V. S., Bakov A. A., Lobov I. B. )

22. Creation of organizational conditions for the examination and pilot testing of new educational technologies developed and implemented in the framework of the projects of the Federal Target Program "Development of Education».// Report on research, Institute for strategic studies in education RAE M.:2006. State contract No П509 from 16.11.2006.- 120s. (in co-authorship of Grinshkun V. V.)

23. Creation and implementation of a complex electronic information system "Smart School" (KEIS USH) management of the functioning and development of secondary

school.// Report research, the state assignment DOGMA 2013.- 96 S. (in co-authorship of Grinshkun V. V., Krasilnikov I. V., Levchenko, I. V., Orzechowski P. V., Stepanov P. A., Kremer, E. Z., Smirnov G. S., Sabitov R. A., Panina O. S., M. M. Shalashova, Isaikin O. A., Fradkov A. I., Kashevarov O. A., Poturaev A.V., Glukhov E. A., A. V. Shabashev, factory S. Y., Kornilov V. S., Bazhenov S. A., Babushkin D. B.,Lvova O. V., Fedoseeva Z. R.)

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### **Monographs**

27. Development of a system of logical programming for computers with limited resources and its use in the education of medicine and technology.// Scientific publication./ M-School – Press.-1992. - 124 p.

28. Logical programming (Prologue – B) (in Kazakh). - Almaty: Rauan, 1998.- 80 p. (in co-authorship of Bidaibekov E. Y., Tulpakov N. A.)

29. Programming in the Prolog-D system (MS-DOS, MS Windows95/NT).// Miass: Geotour, 2007 - 66 p. (in co-authorship of Alekseev M. N.)

30. Methodological and technological basis for the creation of e-learning. // Scientific publication. / Samara: publishing House of the Samara state economic Academy. – 2002, 110 p. (in co-authorship of Grinshkun V. V., Makarov S. I.)

31. Information integration and analysis of the educational field in the development of e-learning. // Monograph. / Almaty: Ministry of education and science of the Republic of Kazakhstan, ASU. Abai's. – 2002, 100 p. (in co-authorship of Bidaibekov E. Y., Grinshkun V. V.)

32. Theoretical bases of creation of educational electronic editions. / Tomsk: Publishing house Tomsk University, – 2002, 86 p. (in co-authorship of Belyaev, M. I., Vumyatin, V. M., Grinshkun, V.V., Demkin, V. P., Krasnova, G. A., Korshunov, S. V., Makarov, S. I., Mozhaeva V. G., Nezhurina, M. I., Pozdneev, B. M., Robert, I. V., Solovov, A.V., Teslinov, A. G., Schennikov, S. A.)

33. Theory and practice of creation of educational electronic publications. // M.: Publishing house RUDN, – 2003, 241 p. Part 1. 72 p. (in co-authorship of Belyaev, M. I., Vumyatin, V. M., Grinshkun, V.V., Demkin, V.P., Krasnova, G. A., Korshunov, S. V., Makarov, S. I., Mozhaeva, V. G., Nezhurina, M. I., Pozdneev, B. M., Robert, I. V., Solovov, A.V., Teslinov, A. G., Schennikov, S. A.)

34. Theory and practice of tolerance development by means of the multicultural educational platform of the Moscow city pedagogical University. // Collective monograph. / M.: Education and Informatics, - 2017. 128 p. (co-authored by Grinshkun V. V., Zannoni F., kropova Yu. G., Lvova O. V., McKinney S., Shunina L. A.)

35. Emergent education in information-educational environment: monograph // Monograph. / Moscow: Education and Informatics, 2018.-104 p. (in co-authorship of O.V. Andryushkova)

36. Methodology of continuous research in the field of Informatization of education and methods of teaching Informatics by students of higher education institutions. - Monograph.: Moscow: Education and Informatics, 2018.-232 p. (in co-authorship of Boronenko T. A., Grinshkun V. V., Zaslavskaya O. Yu., Levchenko I. V., Sadykova A. R., Fedotova V. S.)

37. Modern problems and prospects of internationalization of Russia's intellectual resources: challenges, strategies, models, and interests of national, regional, and industry development. Monograph. Moscow: Publishing house of RIOR. 2019 p.287 DOI: [10.29039/02021-0](https://doi.org/10.29039/02021-0) (in co-authorship of Akishina A. A., Anipina I. V., Bogush A. I., Bykova V. D., Vostroknutov I. E., Gagiev N. N., Grigoriev I. S., Grigoriev M. A., Grosev A. R., Gulicheva E. G., Dolinina I. V., Dronov V. V., Zobotkina V. I., Klimovich A. F., Kobzeva E. A., Konstantinova L. V., Kramorov S. O., Kruglov V. I., Kurnosenko M. V., etc.)

38. Program and methodological support for the use of digital economy technologies in the educational process. Edited by Professor, Doctor of technical Sciences S. G. Grigoriev Monograph. Moscow: Education and computer science, 2019.-104 p. (in co-authorship of Abushkin D. B., Andreikina E. K., Grinshkun V. V., Sakhnyuk P. A., Frolov Yu. V., Yakovlev V. B.)

### **Textbooks, teaching AIDS**

1. Guide to coursework on the cycle "Programming and algorithmic languages" (in ALGOL-60). // Kazan, Rotaprint KAI, 1976.- 66 p. (in co-authorship of Kuzmin GA, Sabitov R. A.)

2. Methodical instructions for the use of standard programs in term papers on the cycle "Programming and algorithmic languages" (in ALGOL-60) ). // Kazan, Rotaprint KAI, 1976.-28 p. (co-authored by Kuzmin GA, Sabitov R. A.)

3. Methodical instructions for computing practice. // Yoshkar-Ola, Mary State University, 1983.-40 p.

4. Methodical instructions for the study of the main characteristics of the gamma spectrometer using a minicomputer. // Yoshkar-Ola, Mary State University, 1984.-30 p. (methodical instructions Y. P. Glazkova)

5. Prolog – D. "Electronics BK-0010" user Manual and programming instructions. // Yoshkar-Ola, Mary State University, 1990.-74 p.

6. Prolog – D. "MSX-2" user Manual and programming manual. // Yoshkar-Ola, Mary State University, 1990.-68 p.

7. Prolog – D. "Electronika UKNC" user Manual and instructions for programming. // Yoshkar-Ola, Mary State University, 1990.-75 p.

8. Prolog – D. "Rusich -8" user Manual and programming instructions. // Belgorod A/O "Progress", 1991.-98 p.

9. Informatics. Textbook for high schools and lyceums of humanitarian orientation. // Moscow, NIISIMO, 1993.- 85 p. (in co-authorship of S. A. Beshenkov)

10. Informatics and information technologies Textbook for students of Humanities faculties of pedagogical universities.//Moscow, ININFO.- 166 p. (in co-authorship of S. A. Beshenkov, A. G. Gein.)
11. Computer science and information technology.// Textbook for Humanities universities./ Yekaterinburg.- 1995 143 p. (in co-authorship of Beshenkov S. A., Hein A. G.).
12. The methodology of the pedagogical experiment. Manual for graduate students.//ININFO M., 1995.- 34 p.
13. Computer science and information technology. // Collection of tasks./ LBL, SPB.-1996 (in co-authorship of with Morozova E.V.).
14. Terms of Informatics (English – Russian – Kazakh terminological dictionary)// Educational - methodical manual. / Almaty. Rauan.- 1998 147 p. (in co-authorship of Bidaibekov, E.Y.).
15. Computer science and information technology: a practical work.// Miass: Geotour, 2000.-68 p. (in co-authorship of Alekseev M. N., Beshenkov S. A.)
16. Taxes of Russia: Electronic textbook. // The need for tax planning. / Financial Academy under the Government of the Russian Federation, international scientific Advisory center on taxation. M., – 2001. 22 p. (in co-authorship of Grinshkun V. V., Skvortsov O. V.)
17. Use of modern information technologies and communication technologies in the educational process. // Educational and methodical set for the system of pedagogical education. / M.: APKIPRO, – 2004, 200 p. (in co-authorship of Matrosov V. L., Zhdanov S. A., Voronina O. V., Gorbunova L. N., Grinshkun V. V., Zolotnikova I. Ya., Karakozov S. D., Korneshchuk N. G., Kravtsova A. Yu., Kuznetsov A. A., Lapchik M. P., Matros D. S., Mogilev A.V., Muratova D. A., Pak N. I., Robert I. V., Ryzhova N. I., Semibratov A.M., Tanova E. V., Udalov S. R., Shalov V. L., Shari V. p.)
18. Methodics for evaluating tasks with detailed responses. Computer science. Use 2004. // Moscow: "Unikum-Center", - 2004. 44 p. (in co-authorship of Grishkun V. V., Samylkina N. N.)
19. Educational electronic publications and resources. // Educational and methodological guide for students of pedagogical universities and students of the system of professional development of education workers. / Kursk: KSU, Moscow: MCPU-2006, 98 p. (in co-authorship of Grinshkun V. V.)
20. Creation and use of educational electronic publications and resources. // Educational-methodical manual. / Almaty: Bilim. - 2006. 136 p. (in co-authorship of Bidaibekov E. S., Grishkun V. V.)
21. Educational resources of the Internet for basic General and secondary (full) General education. Catalog. // Federal Agency for education, gniitt "Informika", "Gosinformobr", M., - 2006, 72 p. (in co-authorship of Tikhonov A. N., Kulagin V. P., Bulakina M. B., Vasiliev V. N., Gridina E. G., Grinshkun V. V., Ivannikov A.D., Sigalov A.V.)
22. Educational resources of the Internet for basic General and secondary (full) General education. Catalog. Issue 2. // Federal Agency for education, gniitt "Informika", "Gosinformobr", M., - 2007, 48 p. (in co-authorship of Tikhonov A. N., Kulagin V. P., Bulakina M. B., Vasiliev V. N., Gridina E. G., Grinshkun V. V., Ivannikov A.D., Rudakova D. T., Sigalov A.V., Simonov A.V.)

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24. Educational resources of the Internet for basic General and secondary (full) General education. Catalog. Issue 4. // Federal Agency for education, informica, Moscow, - 2007, 52 p. (in co-authorship of Tikhonov A. N., Kulagin V. P., Bulakina M. B., Vasiliev V. N., Gridina E. G., Grinshkun V. V., Ivannikov A.D., Rudakova D. T., Sigalov A.V., Simonov A.V.)

25. Informatization of education. Fundamental basis. // The textbook for students of pedagogical high schools and listeners of system of professional development of teachers. / Tomsk: Publishing house "TML-Press", - 2008, 286 p. (in co-authorship of Grinshkun V. V.)

25. Educational resources of the Internet for basic General and secondary (full) General education. Catalog. Issue 5. // Federal Agency for education, informica, Moscow, - 2008, 80 p. (in co-authorship of Tikhonov A. N., Kulagin V. P., Bulakina M. B., Vasiliev V. N., Gridina E. G., Grinshkun V. V., Ivannikov A.D., Rudakova D. T., Sigalov A.V., Simonov A.V.)

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28. Informatics and ICT (Information and communication technologies). 8 CL.: textbook for General education institutions. - Moscow: Drofa, - 2010. 255 p. (in co-authorship of Kuznetsov A. A., Grinshkun V. V., Levchenko I. V., Zaslavskaya O. Yu.) (Approved by the Ministry of education and science of the Russian Federation, included in the Federal list of textbooks)

29. Working program "Informatics and ICT" for grades 8-9 of General education institutions. // Work programme. Computer science and ICT. Grades 8-9: educational and methodological guide. / Moscow: Drofa, - 2012. pp. 66-143. (in co-authorship of by Kuznetsov A. A., Grinshkun V. V., Levchenko I. V., Zaslavskaya O. Yu.)

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### **Articles and abstracts**

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2. Scheme of the generalized method of integral relations for multidimensional one-phase Stefan problems and its application.// In sat. Applied problems of theoretical and mathematical physics, Riga, From Latsu, 1980 (in co-authorship of Pudovkin M. A., Kosolapov V. N., Chugunov V. A.)

3. The algorithm of symbolic solution of systems of linear algebraic equations on a computer and its application for the design of buildings in the permafrost zone.// in Digest. Automation of search of new technical solutions. Gorky, Publishing house of GSU, 1980

4. A package of applications for approximate numerical and analytical solution of the Stefan problem.// In: Digest "Applied software Packages". Methods and developments. / M.: NAUKA, 1981
5. Study of the Galerkin method for one-dimensional single-phase Stefan problems.// Numerical methods of continuum mechanics, Vol. 15, No 4. /M.: NAUKA.-1983. (in co-authorship of Lapin, A. V., Chugunov V. A.)
6. The system of processing the results of the experiment on a computer.//In: collection of Methods of Cybernetics in chemistry and technology, Digest of papers young scientists, terrible of ChISU, 1984 (in co-authorship of Luchko A. B.)
7. Creation of a complex of minicomputers for processing the results of the experiment.//in proc. the Application of nuclear physical methods of research of substance, Yoshkar-Ola, Mary state University, 1985 (in co-authorship of Luchko A. B.)
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9. Analog-to-digital Converter deployment type.// Computer science and engineering.- Digest Reports. All-Union Seminar of young scientists. M.: Science.- 1986.
10. Let's try a PROLOG.// Informatics and education. M.: 1987 (in co-authorship of Morozov M. N.)
11. Diagnosis of glaucoma based on formal logic.// Materials of the Y-all-Russian Congress of ophthalmologists, M.: 1987 (in co-authorship of Grigoriev O. G.)
12. The programming language Prolog -D.// Catalog VDNKH, Moscow: 1988 (in co-authorship of Urtminceev A. G.)
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20. Work of system Prolog - D.// Informatics and education. M.: - 1990 No 4
21. Programming on the Prolog - D.// Informatics and education. M.: - 1990 No 5
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No 6
24. The system of logical programming Prolog-D in the educational process in the educational process of Humanities faculties.// Collection of Materials in All Union Seminar with international participation "Use of computer technology in the teaching of social Sciences.- Leningrad, 1990
25. Educational translators from the Prolog language.//in proceedings of the YI All-Union Seminar "Personal computers in educational process" IPIAN of the USSR.- M.: 1991
26. Automation science practicum.//in proceedings of the YI All-Union Seminar "Personal computers in educational process" IPIAN of the USSR.- M.: 1991
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30. Electronic book of problems in the language of prologue in advanced courses of computer science.// in the Collection of Abstracts of the International conference "Application of new computer technologies in education" M., NAUKA, 1991 (in co-authorship of of Fedyushin D. P.)
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35. Configurator for Prolog-D.// Informatics and education No 5-6 1992
36. Logical programming in education.// Pedagogical Informatics No1,1993 (in co-authorship of J. A.)
37. The local network of the school KUVT.// Pedagogical Informatics No1,1994 (in co-authorship of Vagramenko J. A.)
38. Course of Informatics Humatarian profile.// in Coll. Proc. Reports All Russian conference "Informatics 94" (in co-authorship of Beshenkov S. A., Gein A. G.)
39. Selection of computer equipment for the education system.// in Coll. proc. Reports All Russian conference "Informatics 94" (in co-authorship of Ryazansky M. V.)
40. Decade of the Prologue in the sphere of education of Russia.// proceedings of the International conference "East-West 1994" M. ICSTI, 1994



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42. Decade of logical programming in the field of education in Russia.//in the collection of Materials of III all-Russia. Conf. "Informatization of education 95", Stavropol 1995
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44. The concept of a new generation of computer science textbook.// Abstracts of the International conference "Application of new computer technologies in education", M. Baitik, 1995 (in co-authorship of S. A. Beshenkov, A. G. Gein.)
45. The problem of integration of the course of Informatics and Humanities, containing regional features. // in: collection of Abstracts of international conference "Mathematical modeling in natural science", devoted to 75th anniversary of academician of NAS RK, Lukyanov A. T., Almaty, 17.04 - 19.04.97 G. (in co-authorship of Bidaibekov E. S.)
46. Organization of network systems in the school.// in proc. of the International. College is indisputable. education, Almaty, In SB: Psycho.-educator. factors of formation of the personality in the conditions of private College Issue 2. 1999 (co-authored by Grinshkun V. V., Shelukhina A. V.)
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