

Anvar Hasanov

First Name: Anvar
Family Name: Hasanov
Year of Birth: 1952, 07 January, Kokand,
Uzbekistan,
Place of work: Institute of Mathematics, Uzbek
Academy of Sciences
Postal address: F. Hodjaev str. 29, Tashkent
100125, Institute of
Mathematics
Phone: +998-71-162-75-44 (office);
+998-71-221-74-13 (home);
+998-99-819-95-42. (mob)



Academic Degree:
Doctor of Philosophy, PhD in Mathematics (1982).
Doctor of sciences in Physics and Mathematics (2010).
Thesis Advisor: prof. M. S. Salakhitdinov

<http://www.mathnet.ru/eng/person/41932>

<https://scholar.google.com/citations?user=cpamZuAAAAAJ&hl=ru>

E-mail: anvarhasanov@yahoo.com

Education and work experience:

- | | |
|-------------|---|
| 1974-1975 | Tashkent State University Mathematical faculties,
Tashkent has defended the diploma on a theme
"Solutions of boundary value problems Bitsadze-
Samarskii for the modeling equation of the mixed type". |
| 1975- 1983 | Junior scientific researcher at the Institute of
mathematics, Uzbek Academy of Sciences |
| 1982 | Has defended a dissertation on a theme "Boundary value
problems with mixture for the equations of the mixed
type with one and with two lines of parabolic
degeneration". |
| 1983-2000 | Assistant of Professor, later as Professor in
Kokand Pedagogical institute. |
| 2000- 2008 | Senior scientific researcher of Institute of mathematics,
Uzbek Academy of Sciences |
| 2008 – 2010 | Dozent of the department «Mathematics and
Informatics» of the Tashkent branch of |

the Russian State University of Gas and Oil named
after I.M.Gubkin

- 2010- 2011 Research Professor, Dongguk University (South Korea)
- 2011- 2012 Professor of the department «Mathematics and
Informatics» of the Tashkent branch of
the Russian State University of Gas and Oil named
after I.M.Gubkin.
- 2012- Institute of Mathematics. 81 Mirzo-Ulugbek street,
Tashkent 700170, Uzbekistan. Leading Researcher.

Research interests:

33C05 Classical hypergeometric functions
33C15 Confluent hypergeometric functions
33C20 Generalized hypergeometric series, pFq
33C60 Hypergeometric integrals and functions defined
33C65 Appell, Horn and Lauricella functions
35A08 Fundamental solutions
35J70 Elliptic partial differential equations of degenerate type
35L80 Hyperbolic PDE of degenerate type
35Q05 Euler-Poisson-Darboux equation and generalizations
35M10 PDE of mixed type
44A20 Transforms of special functions
44A45 Classical operational calculus
45D05 Volterra integral equations

Publications in the reviewed journals:

1. A. Hasanov, A. S. Berdyshev and A. R. Ryskan. *Fundamental solutions for a class of four-dimensional degenerate elliptic equation*. Complex variables and elliptic equations. <https://doi.org/10.1080/17476933.2019.1606803>
2. Berdyshev A.S., Hasanov A. Ergashev T.G. *Double-layer potentials for generalized bi-axially symmetric Helmholtz equation II*. Complex variables and elliptic equations. <https://doi.org/10.1080/17476933.2019.1583219>
3. Hasanov Anvarjon, Ergashev T.G. *Solutions of PDE systems for Kamp' e de F' eriet type functions*. Bulletin of the Institute of Mathematics. 2018, □3, pp.23-28
4. Хасанов А., Бердышев А. *Задачи на собственные значения для одного класса вырождающегося дифференциальных уравнений третьего порядка составного типа*. Бюллетень института математики. 4, 2018, 1-5.

5. Maged G. Bin-Saad, Anvar Hasanov and Mamasali Turaev. *Decomposition Formulas of Kampé de Fériet's Double Hypergeometric Functions*. Anal. Theory Appl., Vol. 34, No. 3 (2018), pp. 275-292
6. Hasanov A., Maged G. Bin-Saad, Berdyshev A. *Solutions of PDE systems for Appell-type functions*. Uzbek Mathematical Journal, 2018, 2 , pp.50-62.
7. Anvar Hasanov, Maged G. Bin Saad, Ainur Ryskan. *Some properties of Horn type second order double hypergeometric series*. Bulletin KRASEC. Physical and Mathematical Sciences. № 1(21). C. 32-47, 2018.
<http://krasec.ru/wp-content/uploads/2018/04/Hasanov.pdf>
8. Ergashev T.G., Hasanov A. *Fundamental solutions of the bi-axially symmetric Helmholtz equation*. Uzbek Mathematical Journal, 2018, No1, pp.55-64.
9. Anvar Hasanov, Maged G. Bin-Saad and Rakhila B. Seilkhanova. *Applications of symbolic operators to the Kampé de Fériet's double hypergeometric series*. Palestine Journal of Mathematics. Vol. 7(1) (2018), 191-201.
http://pjm.ppu.edu/sites/default/files/papers/PJM_October_2017_22.pdf
10. Anvar Hasanov, Maged G. Bin Saad, Rakhila B. Seilkhanova. *Integrated Representations of Euler-Type for Functions Related to Kampé de Fériet Function of the Fourth Order(II)*. International Journal of Pure and Applied Mathematical Technologies; Vol. 2016.1.2; pp. 10-17.
11. Anvar Hasanov, Rakhila B. Seilkhanova and Roza D. Seilova, *Linearly independent solutions of the system of hypergeometric Exton function X_{12}* . Contemporary Analysis and Applied Mathematics. Vol.3, No.2, 279-282, 2015. DOI: 10.18532/caam.02474
12. Rakhila B. Seilkhanova, Anvar H. Hasanov; *Particular solutions of generalized Euler-Poisson-Darboux equation*, Electron. J. Diff. Equ., Vol. 2015 (2015), No. 09, pp. 1-10.
<http://ejde.math.txstate.edu/>
Impact Factor(IF), 0.419 in 2014
13. H. M. Srivastava, Anvar Hasanov and Junesang Choi. *Double-Layer Potentials for a Generalized Bi-Axially Symmetric Helmholtz Equation*. Sohag Journal of Mathematics An International Journal. 2, No. 1, 1-10 (2015)

14. Anvar Hasanov, Maged G. Bin Saad, Rakhila B. Seilkhanova. *Integral Representations of Euler Type for Kampe de Fariet Functions of the Fourth Order*. Ganita Sandesh, V. 28, No 1 and 2, 2014, pp. 5-12.
15. Maged G. Bin-Saad and Anvar Hasanov. *Linear Independent Solutions and Operational Representations for Hypergeometric Functions of Four Variables*. Chinese Journal of Mathematics. Volume 2014, pp. 1-6.
Article ID 273064, 6 pages. <http://dx.doi.org/10.1155/2014/273064>
16. M.S. Salakhitdinov and A. Hasanov. *The Dirichlet problem for the generalized bi-axially symmetric Helmholtz equation*. Eurasian Mathematical Journal, Volume 3, Number 4(2012), 99 – 110.

<http://www.mathnet.ru/links/b34865cf49622c67e96dec82dfe06429/emj107.pdf>

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17. Junesang Choi, Anvar Hasanov and Mamasali Turaev. *Integral Representations for Srivastava's Hypergeometric Functions H_C* . Honam Mathematical journal. 34 (4), 2012, 473-482.
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/hmsk/HNSHCY/2012/v34n4/HNSHCY_2012_v34n4_473.pdf
Impact Factor(IF), 0.237 in 2012

18. Junesang Choi, Anvar Hasanov and Mamasali Turaev. *Serendipitous Functional Relations Deducible from Certain Generalized Triple Hypergeometric Functions*. Kyungpook Math. J. 52(2012), 109-136
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/kyupu/GBDHBF/2012/v52n2/GBDHBF_2012_v52n2_109.pdf

19. Junesang Choi, Anvar Hasanov and Mamasali Turaev, *Integral Representations for Srivastava's Hypergeometric Functions H_B* . Journal of the Korea Society of Mathematical Education. 19 (2), 2012, 137-145.
http://www.koreascience.or.kr/article/ArticleFullRecord.jsp?cn=SHGHXCX_2012_v19n2_137
KSCI: Impact Factor(IF), 0.11 in 2012

20. Junesang Choi, Anvar Hasanov and Mamasali Turaev, *Certain Integral Representations of Euler type for the Exton Function X_8* . Commun. Korean Math. Soc. 27 (2012), No. 2, pp. 257-264.
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21. Junesang Choi, A. Hasanov and M. Turaev, *Integral Representations for Srivastava's Hypergeometric Function H_A* . Honam Mathematical journal. 34 (1), 2012, 113-124.
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/hmsk/HNSHCY/2012/v34n1/HNSHCY_2012_v34n1_113.pdf
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22. M.S. Salakhitdinov and A. Hasanov. *Краевая задача ND_1 для обобщенного осе симметрического уравнения Гельмгольца*. Reports of International Academy of Sciences of Adygey, Vol.13, No1, 2012, pp. 109-116.

23. Junesang Choi and Anvar Hasanov. *Certain decomposition formulas of generalized hypergeometric functions pFq and some formulas of an analytic continuation of the Clausen function $3F_2$* . Commun. Korean Math. Soc. 27 (2012), No. 1, pp. 107-116
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24. Junesang Choi, Anvar Hasanov and H.M. Srivastava. *Relations between Lauricella's triple hypergeometric function $F_A^{(3)}[x, y, z]$ and the Srivastava function $F^{(3)}[x, y, z]$* . Integral Transforms and Special Functions. Vol. 23, No. 1, January 2012, pp. 69–82
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25. Kim, Yong-Sup, Hasanov, Anvar. *Functional relations involving Saran's hypergeometric functions F_E and $F^{(3)}$* . The Pure and Applied Mathematics. 19, 1, 2012, pp.43-57
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26. Junesang Choi, Anvar Hasanov, H. M. Srivastava and Mamasali Turaev. *Integral representations for Srivastava's triple hypergeometric Functions*. Taiwanese Journal of Mathematics. Vol. 15, No. 6, pp. 2751-2762, December 2011.
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27. Junesang Choi, Anvar Hasanov and Mamasali Turaev. *Decomposition Formulas and integral representations for some Exton hypergeometric Functions*. Journal of the Chungcheong Mathematical Society. 24 (4), 2011, 745—757.

28. Junesang Choi, Yong Sup Kim, and Anvar Hasanov, *Relations between the Hypergeometric Function of Appell F_3 and Kampé de Fériet Functions*. Miskolc Mathematical Notes, Vol. 12 (2011), No. 2, pp. 131–148
29. Junesang Choi, A. Hasanov and M. Turaev, *Functional Relations Involving Srivastava's Hypergeometric Functions H_B and $F^{(3)}$* . Journal of the Chungcheong Mathematical Society. 24 (2), 2011, 187-204.
30. Junesang Choi, Yong Sup Kim and Anvar Hasanov, *Application of the operator $H(\alpha, \beta)$ to the Saran function F_E and some other results*. Honam Mathematical J. 33 (2011), No. 4, pp. 441-452.
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/hmsk/HNSHCY/2011/v33n4/HNSHCY_2011_v33n4_441.pdf
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31. Junesang Choi, A. Hasanov and M. Turaev, *Several Integral Representations Involving Triple Hypergeometric Functions*. Honam Mathematical journal. 33 (2), 2011, 129-142.
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/hmsk/HNSHCY/2011/v33n2/HNSHCY_2011_v33n2_129.pdf
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32. Junesang Choi, A. Hasanov and M. Turaev, *Linearly Independent Solutions for the Hypergeometric Extor Functions X_1 and X_2* . Honam Mathematical journal. 33 (2), 2011, 223-229.
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/hmsk/HNSHCY/2011/v33n2/HNSHCY_2011_v33n2_223.pdf
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33. Junesang Choi, A. Hasanov, *Applications of the operator $H(\alpha, \beta)$ to the Humbert double hypergeometric functions*. Computers and Mathematics with Applications. 61 (2011) 663–671.
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34. Yong Sup Kim, A. Hasanov and Chang Hyun Lee, *Some decomposition formulas associated with the Saran Function F_E* . Honam Mathematical journal. 32 (4), 2010, 581-592.
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35. Junesang Choi, A. Hasanov and M. Turaev, *Certain Integral Representations of Euler Type for the Exton Function X_2* . Journal of the Korea Society of Mathematical Education. 17 (4), 2010, 347-354.

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37. A. Hasanov, J. M. Rassias and M. Turaev, *Fundamental solution for the generalized Elliptic Gellerstedt Equation*, Book: "Functional Equations, difference Inequalities and ULAM Stability Notions", Nova Science Publishers Inc. NY, USA, 6 (2010) 73 - 83.

38. A. Hasanov, M. Turaev and Junesang Choi, *Decomposition formulas for the generalized hypergeometric ${}_4F_3$ function*. Honam Mathematical journal. 32 (1), 2010, 1-16.

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40. M.S. Salakhitdinov and A. Hasanov, *The Fundamental solution for one class of degenerate elliptic equations*. More Progresses in Analysis. Proceedings of the 5-th International ISAAC Congress. World Scientific Publishing Co Pte. Ltd. 2009, 521-531.

41. A. Hasanov, *Fundamental solutions for degenerated elliptic equation with two perpendicular lines of degeneration*. International Journal of Applied Mathematics and Statistics. 13 (8), 2008, p. 41-49.

42. A. Hasanov, *Applications of Operator $H(\alpha, \beta)$ to the Lauricella Multivariable Hypergeometric Functions*. Proceedings of the 16-th international Conference on Finite or Infinite Dimensional Complex Analysis and Applications. Gyeongju, Korea, 2008, pp. 267-281.

43. M.S. Salakhitdinov M. S. and A. Hasanov, *A solution of the Neumann-Dirichlet boundary value problem for generalized bi-axially symmetric Helmholtz equation*. Complex Variables and Elliptic Equations. 53 (4), 2008, p. 355-364.

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44. A. Hasanov. *New class of confluent hypergeometric functions with three variables*. Proceedings of the 8-th International Conference of the Society for Special Functions and their Applications. Palai, Kerala (India), May 18-20, 85-94, 2007.

45. M.S. Salakhitdinov, A. Hasanov. *К теории многомерного уравнения Геллерстедта*. Uzbek Mathematical Journal. No 3, 2007, pp. 95-109.

46. A. Hasanov, *Fundamental solutions of generalized bi-axially symmetric Helmholtz equation*. Complex Variables and Elliptic Equations. Vol. 52, No. 8, 2007, pp. 673-683.

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47. A. Hasanov and M. Turaev, *Decomposition Formulas for the Double Hypergeometric functions G_1 and G_2* . Applied Mathematics and Computation, 187 (1), 2007, pp.195-201,

Impact Factor(IF), 0,961

48. A. Hasanov, *Some solutions of generalized Rassias's equation*. International Journal of Applied Mathematics & Statistics. v.8, M07, 2007, pp. 20-30.

49. A. Hasanov, *The solution of the Cauchy problem for generalized Euler-Poisson-Darboux equation*. International Journal of Applied Mathematics & Statistics. v.8, M07, 2007, pp. 30-44.

50. A. Hasanov and H.M. Srivastava, *Decomposition Formulas Associated with the Lauricella Multivariable Hypergeometric Functions*. Computers and Mathematics with Applications, 53 (7), 2007, pp. 1119-1128.

Impact Factor(IF), 0.997

51. A. Hasanov, J.M. Rassias, *Fundamental Solutions of two Degenerated Elliptic Equations and Solutions of Boundary Value Problems in Infinite Area*. Journal of Applied Mathematics & Statistics, 2007, Vol. 8, M07, pp. 87-95.

52. A. Hasanov, H. M. Srivastava, M. Turaev, *Decomposition Formulas for some triple hypergeometric functions*. Journal of Mathematical Analysis and Applications. 324 (2), 2006, pp. 955-969.

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53. A. Hasanov, H. M. Srivastava, *Some decomposition formulas associated with the Lauricella Function $F_A^{(r)}$ and other multiple hypergeometric functions*. Applications Mathematical Letters, 19, 2006, pp. 113- 121.

http://ac.els-cdn.com/S0893965905001722/1-s2.0-S0893965905001722-main.pdf?_tid=74f96a54-7055-11e3-a335-00000aacb361&acdnat=1388299988_f560c654ada04176e766ffe457269353

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54. A. Hasanov. *Fundamental solutions of generalized Helmholtz equation*. Reports of Uzbek Academy of Sciences, No 1, 2006, pp. 13-15.

55. M.S. Salakhitdinov, A. Hasanov. *The uniqueness of the solution of the Tricomi problem for a one class of mixed type equations*. Uzbek Mathematical Journal. No 4, 2005, pp. 94-101

56. M.S. Salakhitdinov, A. Hasanov. *On some properties of Clausen's hypergeometric functions*. Uzbek Mathematical Journal. No 2, 2005, pp. 63-76.

57. M.S. Salakhitdinov, A. Hasanov. *On the uniqueness of solutions of boundary-value problems for hyperbolic equation of various kind*. Reports of International Academy of Sciences of Adygey, Vol.7, No1, 2004, pp. 92-94.

58. M.S. Salakhitdinov, A. Hasanov. *The extremum principle for general integral-differential operator of fractal order*. Reports of Uzbek Academy of Sciences, 11, (1988), pp. 3-4.

59. M. S. Salakhitdinov and A. Hasanov. *The Tricomi problem for an equation of mixed type with a no smooth line of degeneracy*. Differentsial'nye Uravneniya, 1, 19, (1983), pp. 110-119.

60. A. Hasanov. *On a mixed problem for the equation $\text{Sign } y |y|^m u_{xx} + x^n u_{yy} = 0$* . Izv. Akad. Nauk. UzSSR, ser. Fiz.-Mat. Nauk, 2 (1982), pp. 28-32, 76.

61. A. Hasanov, A.K. Pulatov. *On some boundary-value problems for a degenerate elliptic equation*. Coll. Differential equations of mathematical physics and their applications. Tashkent, Fan, 1983.

62. A. Hasanov. *On some Bitsadze-Samarskii type problems for hyperbolic type equation*. Coll. Differential equations of mathematical physics. Tashkent, Fan, 1982.
63. M. S. Salakhitdinov and A. Hasanov. *A boundary value problems for the generalized Tricomi equation*. Izv. Akad. Nauk. UzSSR, ser. Fiz. - Mat. Nauk, 6 (1979), pp. 29-33, 91.
64. A. Hasanov. *Problems with non-local boundary conditions for a class of equations of mixed type*. Differentsial'nye Uravneniya, 1, 15, (1979) pp. 153-158, 190.
65. M. S. Salakhitdinov and A. Hasanov. *Boundary value problems with shift for the equation $\text{Sign } y |y|^m u_{xx} + u_{yy} = 0$* . Differential equations and their applications. pp. 14-25, "Fan", Tashkent, 1979.
66. A. Hasanov. *A generalization of a boundary value problem with displacement for an equation of mixed type*. Direct and inverse problems for partial differential equations and their applications. "Fan", Tashkent, 1978, pp. 50-55.
67. M. S. Salakhitdinov, A. Hasanov. *Some boundary value problems with displacement for one class of the equations of the mixed type*. Izv. Akad. Nauk UzSSR Ser. Fiz-mat. Nauk 5, (1977), pp. 44-49.

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68. M. S. Salakhitdinov, A. Hasanov. *Particular solutions for degenerated parabolic equations*. Proceedings of the 2nd Russian-Kazakh symposium "Mixed type equations and related problems of analysis and informatics", 17-20 May, Nalchik, Russia, 2011, pp. 170-171.
69. Chang Hyun Lee, Yong Sup Kim and A. Hasanov, *Decomposition formulas and integral representations for the Saran function F_S* . Program and Abstracts. The 1 st. International Conference on Mathematics and its Applications. 15-16 October 2010, Dongguk University, Gyeongju, Republic of Korea. pp. 15-17.
70. A. Hasanov, *Particular solutions for one class of degenerated partial differential equations of mixed type*. Program and Abstracts. The 1 st. International Conference on Mathematics and its Applications. 15-16 October 2010, Dongguk University, Gyeongju, Republic of Korea. pp. 29-30.

71. J. Choi, A. Hasanov and M. Turaev, *Decomposition formulas and integral representations for some hypergeometric Exton functions*, Book of abstracts of 18th ICFIDCAA Macau Conference, 12-17 August, University of Macau, Macau SAR, China-2010, p. 37.
72. A. Hasanov, *Applications of hypergeometric functions to the solution of boundary value problems of the degenerated second order partial differential equations*. The Youngnam Mathematical Society, 19 June, 2010, p. 8.
73. M. S. Salakhitdinov, A. Hasanov. *Многомерные гипергеометрические функции и их применения к решения краевых задач для вырождающихся эллиптических уравнений*. Материалы международной конференции, посвященная 100 летию со дня рождения С.Л. Соболева. Новосибирск, 2008, p. 78.
74. M. S. Salakhitdinov, A. Hasanov. *К теории обобщенного осесимметрического уравнения Гельмгольца*. Материалы международного Российско-Азербайджанского симпозиума. Уравнения смешанного типа и родственные проблемы анализа и информатики. 2008, Эльбрус, pp. 151-152.
75. А. Хасанов. *Обобщенные операторы дробного интегро-дифференцирования*. Материалы международного Российско-Азербайджанского симпозиума. Уравнения смешанного типа и родственные проблемы анализа и информатики. 2008, Эльбрус, p. 157.
76. M. S. Salakhitdinov, A. Hasanov. *К теории вырождающихся эллиптических уравнений второго порядка*. Труды международного научно-практической конференции "Казахстан в новом мире и проблемы Национального образования" посвященной 10-летию университета Сырдария. Т.III, 2008, Жетысай, pp. 206-210.
77. M. S. Salakhitdinov, A. Hasanov. *Some decomposition formulas for general hypergeometric functions and analytic continuation formulas for Clausen's functions*. Proceedings of international conference "New directions of the theory of dynamical systems and non-correct problems". 19-20 october 2007, Samarkand, Uzbekistan. pp. 216-218.
78. M. S. Salakhitdinov, A. Hasanov. *Boundary-value problems for generalized bi-axially symmetric Helmholtz equation*. Proceedings of international conference "New directions of the theory of dynamical systems and non-correct problems". 19-20 october 2007, Samarkand, Uzbekistan. pp. 219-221.

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80. A. Hasanov, S.S. Isamukhamedov. *Fundamental solutions of generalized Gellerstedt equation*. Proceedings of the International conference devoted to 100 anniversary of Academician I.N.Vekua. Novosibirsk, 2007, pp. 346-347.
81. A. Hasanov. *Fundamental solutions of many-dimensional elliptic equation*. Proceedings of the international conference devoted to the memory of A.F.Leont'ev, Ufa, 2007, Vol. 3, pp. 16-17.
82. A. Hasanov. *Fundamental solutions of degenerated elliptic equation*. Proceedings of third international conference: "Non-local problems and related problems of mathematical biology, informatics and physics". Nal'chik, 2006, pp. 301-302.
83. A. Hasanov, *Decompositions for the Triple Hypergeometric Function* $H_A(\alpha, \beta_1, \beta_2; \gamma_1, \gamma_2; x, y, z)$. International Symposium on Analytic Function Theory, Fractional Calculus and Their Applications in Honors of Professor H. M. Srivastava on His Sixty-Fifth Birth Anniversary [August 22 to August 27, 2005] p. 21.
84. M.S. Salakhitdinov, A. Hasanov. *The construction of fundamental solutions for a one class of three-dimensional degenerate elliptic equation*. Proceedings of the international conference: "Modern problems of mathematical physics and information technologies", Vol.1, Tashkent, 2003, pp. 96-101.
85. A. Hasanov. *The uniqueness of the solution of the Tricomi problem for the equation $|x|^n |y|^m u_{xx} + \text{sign}(xy) u_{yy} = 0$* . Proceedings of the international conference: "Modern problems of mathematical physics and information technologies", Vol.1, Tashkent, 2003, pp.120-125.
86. A. Hasanov, *About one problem with displacement for the equation of the mixed type*. Theses Reports of a republican symposium on the differential equations, Ashgabat, (1978), pp. 41-42.

Conference participations

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Anvarhasanov1952 - eesserver@eesmail.elsevier.com

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