|  |  |  |
| --- | --- | --- |
|  | **CURRICULUM VITAE OF AIGERIM KALYBAY** | |
| **Date of birth:** | 25/06/1977 | |
| **E-mail:** | [kalybay@kimep.kz](mailto:kalybay@kimep.kz) | |
| **Education:** | 1994 - 1997 | Al-Farabi Kazakh National University, Almaty, Mathematical Department |
|  | 1997 - 1998 | L.N. Gumilyov Eurasian National University, Astana, Mathematical Department |
|  | 1998 - 2001 | Institute of Mathematics, Ministry of Education & Science, Almaty, postgraduate study |
|  | 2005 - 2006 | Luleå University of Technology, Sweden, and L.N. Gumilev Eurasian National University, Kazakhstan, PhD study |
| **Diplomas:** | 2006, June | **PhD in the subject area of Mathematics**, Luleå University of Technology, Sweden |
|  | 2002, February | The academic degree of **Candidate in Physical and Mathematical Sciences**,Ministry of Education and Science, Republic of Kazakhstan |
|  | 1998 | L.N. Gumilyov Eurasian National University, Astana:  • Specialization: Mathematics and Informatics |
| **Work experience:** | August 2006 – present | KIMEP University, Professor |
|  | 2005 – 2006 | L.N. Gumilyov Eurasian National University, Astana, Researcher |
|  | 2002 - 2005 | Institute of Mathematics, Academy of Sciences, Ministry of Education & Science, Almaty, Researcher |
|  | 2003 - 2004 | International Academy of Business, Almaty, Lecturer |
| **Other information:** | 2020-2022 | Supervisor of the State Grant “Oscillation and spectral characteristics of some classes of higher order differential operators and related weighted differential inequalities" supported by the Ministry of Science and Higher Education of Kazakhstan and carried out at L.N. Gumilyov Eurasian National University. |
|  | 2021-2023 | Senior Researcher of the State Grant “Investigations of linear, quasilinear integral and discrete operators in weighted spaces" supported by the Ministry of Science and Higher Education of Kazakhstan and carried out at L.N. Gumilyov Eurasian National University. |
|  | 2023-2025 | Supervisor of the State Grant “New development of Hardy-type inequalities and their various applications" supported by the Ministry of Science and Higher Education of Kazakhstan and carried out at Institute of Mathematics and Mathematical Modeling, Academy of Science |
| **Main publications:**  1. Kalybay A. and Oinarov R., Some properties of spaces with multiweighted derivatives, Progress in Analysis, World Scientific, 2003, 1-13.  2. Kalybay A., A Generalized Multiparameter Weighted Nikol’skii–Lizorkin Inequality, Doklady Mathematics, Vol. 68, # 1, 2003, 121-128.  3. Kalybay A., A Generalization of the Weighted Hardy Inequality for One Class of Integral Operators, Siberian Mathematical Journal, Vol. 45, iss. 1, 2004, 100-112.  4. Kalybay A. and Persson L.-E., Three weights higher order Hardy type inequalities, Journal of Function Spaces and Applications, Vol. 4, #2, 2006, 163-191.  5. Kalybay A., Oinarov R. and Persson L.-E., Spectral properties of a class of singular differential operators, Journal of Mathematical Inequalities, Vol. 1, #3, 2007, 355-376.  6. Oinarov R. and Kalybay A., Three-parameter weighted Hardy type inequalities, Banach Journal of Mathematical Analysis, Vol. 2, #2, 2008, 85-93.  7. Abdikalikova Z. and Kalybay A., Summability of a Tchebysheff system of functions, Journal of Function Spaces and Applications, Vol. 8, #1, 2010, 87-102.  8. Kalybay A., Oinarov R. and Temirkhanova A., Boundedness of n-multiple discrete Hardy operators with weights for 1<q<p<∞, Journal of Function Spaces and Applications, 2013, <http://dx.doi.org/10.1155/2013/121767>.  9. Kalybay A., On boundedness of the conjugate multidimensional Hardy operator from a Lebesgue space to a local Morrey-type space, International Journal of Mathematical Analysis, Vol. 8, # 11, 2014, 539 – 553.  10. Oinarov R., Kalybay A. Weighted inequalities for a class of semiadditive operators, Annals of Functional Analysis, Volume 6, [Number 4](https://projecteuclid.org/euclid.afa/1435763998) (2015), 155-171, <http://doi.org/10.15352/afa/06-4-155>  11. Kalybay A., Persson L.-E. and Temirkhanova A., A new discrete Hardy-type inequality with kernels and monotone functions,[Journal of Inequalities and Applications](http://link.springer.com/journal/13660), (2015) 2015:321,  http://dx.doi.10.1186/s13660-015-0843-9  12. Oinarov R., Kalybay A. Weighted estimates of a class of integral operators with three parameters, Journal of Function Spaces, Volume 2016 (2016), Article ID 1045459,  <http://dx.doi.org/10.1155/2016/1045459>  13. Kalybay A., One-dimensional differential Hardy inequality, Journal of Inequalities and Applications, 2017, 2017:21; <http://dx.doi.org/10.1186/s13660-017-1293-3>  14. Kalybay A., Karatayeva D., Oinarov R., Temirkhanova A., Oscillation of a second order half-linear difference equation and the discrete Hardy inequality, Electronic Journal of Qualitative Theory of Differential Equations, 2017, # 43, 1-16; <http://dx.doi.org/10.14232/ejqtde.2017.1.43>  15. Kalybay A., Shalginbayeva S. Additive estimates for discrete Hardy-type operators, Eurasian Mathematical Journal, 2018, Volume 9, Number 2, 44-53.  16. A. Kalybay, R. Oinarov, “Kernel operators and their boundedness from weighted Sobolev space to weighted Lebesgue space”, Turkish Journal of Mathematics, Vol. 43, 2019, 301-315; http://dx.doi.10.3906/mat-1807-187 (Published: January 2019).  17. Kalybay A., Oinarov R., Temirkhanova A. Integral operators with two variable integration limits on the cone of monotone functions, Journal of Mathematical Inequalities, Vol. 13, #1, 2019, 1-16; <http://dx.doi.10.7153/jmi-2019-13-01>. | | |
| 18. Kalybay A., Oinarov R. Estimates of a class of quasilinear integral operators on the set of nonnegative and nonnegative-monotone functions, [Izvestiya: Mathematics, Vol. 83:2, 2019, 61–82](Izvestiya:%20Mathematics,%20Vol.%2083:2,%202019, 61–82);  [http://dx.doi.org/10.4213/im8613](https://doi.org/10.4213/im8613).  19. Kalybay A. Weighted estimates for a class of quasilinear integral operators, [Siberian Mathematical Journal, Vol. 60, # 2, 2019, 291–](https://doi.org/10.1070%2FIM2013v077n04ABEH002658)303;  [http://dx.doi.org/10.1134/S0037446619020095](https://doi.org/10.4213/im8613).  20. Kalybay A., Oinarov R. Weighted Hardy Inequalities with Sharp Constants, J. Korean Math. Soc. 57 (2020), No. 3, pp. 603-616; <https://doi.org/10.4134/JKMS.j190266>. 21. Kalybay A. Boundary value conditions for linear differential equations with power degenerations, Boundary Value Problems, volume 2020, Article number: 110 (2020), <https://doi.org/10.1186/s13661-020-01412-6>.22. Kalybay A., Oinarov R., Boundedness of Riemann-Liouville operator from weighted Sobolev space to weighted Lebesgue space, Eurasian Mathematical Journal Volume 12, Number 1 (2021), 39 – 48. 23. Kalybay A., Keulimzhayeva Zh., Oinarov R., On the Density of Compactly Supported Functions in a Space with Multiweighted Derivatives, Proc. Steklov Inst. Math., 312 (2021), 179–193.  <https://doi.org/10.1134/S0081543821010107>  24. Kalybay A., Oinarov R., Sultanaev Ya.T., Oscillation and spectral properties of some classes of higher order differential operators and weighted n th order differential inequalities, Electronic Journal of Qualitative Theory of Differential Equations 2021, No. 3, 1–20; <https://doi.org/10.14232/ejqtde.2021.1.3>  25. Kalybay A., Oinarov R., Sultanaev Ya.T. Weighted Second-Order Differential Inequality on Set of Compactly Supported Functions and Its Applications, Mathematics 2021, 9(21), 2830; <https://doi.org/10.3390/math9212830>  26. Kalybay A., Oinarov R., Sultanaev Ya.T. Weighted differential inequality and oscillatory properties of fourth order differential equations, [Journal of Inequalities and Applications](http://link.springer.com/journal/13660), (2021) 2021:199, <https://doi.org/10.1186/s13660-021-02731-7>  27. Kalybay A. Alternative criteria for boundedness of one class of integral operators in Lebesgue spaces, Filomat 35:14 (2021), 4825–4836 https://doi.org/10.2298/FIL2114825K  28. Kalybay A., Two-sided estimates of the norm for a class of matrix operators, Siberian Advances in Mathematics, Vol. 32, No. 1, 2022, 29-34. <https://doi.org/10.33048/mattrudy.2021.24.203>  29. Kalybay A., Oinarov R. Boundedness of Riemann-Liouville operator from weighted Sobolev space to weighted Lebesgue space for 1<q<p<∞, Mathematical Inequalities and Applications, 2022, Volume 25, Number 1, 17-26. <https://doi.org/10.7153/mia-2022-25-02>  30. Kalybay A., Karatayeva D. Oscillation and non-oscillation criteria for second order half-linear difference equation and extended discrete Hardy inequality, Ukrainian Mathematical Journal, Vol. 74, No. 1, June 2022, 50-68. <https://doi.org/10.37863/umzh.v74i1.2298>  31. Kalybay A. Boundedness of one class of integral operators from second order weighted Sobolev space to weighted Lebesgue space, Journal of Function Spaces, Vol. 2022, Article ID 5257476, June 2022. <https://doi.org/10.1155/2022/5257476>  32.       Baiarystanov A., Kalybay A., Oinarov R. Oscillatory and spectral properties of fourth-order differential operator and weighted differential inequality with boundary conditions. Boundary Value Problems Vol. 2022, 78, October 2022. <https://doi.org/10.1186/s13661-022-01659-1>  33.       Kalybay A., Oinarov R., On weighted inequalities for a class of quasilinear integral operators. Banach Journal of Mathematical Analysis. Vol. 17, 3, 2023 <https://doi.org/10.1007/s43037-022-00226-1>  34. Kalybay A., Temirkhanova A. and Zhangabergenova N. On iterated discrete Hardy type inequalities for a class of matrix operators. Analysis Mathematica, 49, 2023, 137–150 <https://doi.org/10.1007/s10476-022-0182-2>  34. Kalybay A., Zhangabergenova N. On iterated discrete Hardy type operators. Operators and Matrices, Volume 17, Number 1, 2023, 79-91 <https://doi.org/10.7153/oam-2023-17-07>  35. Oinarov, R., Temirkhanova, A., Kalybay, A. Boundedness of one class of integral operators from Lp to Lq for 1<q<p<∞. Annals of Functional Analysis 14, 65 (2023). <https://doi.org/10.1007/s43034-023-00287-9>  36. Oinarov R., Kalybay A., Second-order Hardy-type inequality and its applications, Transactions of A. Razmadze Mathematical Institute Vol. 177 (2023), issue 2, 237–245.  37. Oinarov R., Kalybay A., Description of the closure of the set of infinitely differentiable compactly supported functions in a weighted Sobolev space, Journal of Mathematical Sciences, <https://doi.org/10.1007/s10958-023-06672-y> | | |