

ივანე კიდურაძე

დაბადებულია 1937 წლის 12 იანვარს ჩოხატაურის რაიონის სოფ. ხიდისთავში

მისამართი:

ბინა – თბილისი 0062, ი. ჭავჭავაძის გამზ. 75, კორპუსი 4, ბინა 3.

სამსახური – თბილისი 0193, მ. ალექსიძის ქ. № 1,
ანდრია რაზმაძის მათემატიკის ინსტიტუტი.

საკონტაქტო ტელეფონები: 230 847 (ბინა), 239 51 01 (სამსახური), 599 234 678 (მობილური).

ელ. ფოსტა: kig@rmi.ge;

უმაღლესი განათლება, სამეცნიერო ხარისხი და წოდება, დაკავებული თანამდებობები:

- 1960 წ. – დაამთავრა თბილისის სახელმწიფო უნივერსიტეტის მექანიკა-მათემატიკის ფაკულტეტი.
- 1963 წ. – დაიცვა საკანდიდატო დისერტაცია.
- 1963-1966 წწ. იყო თბილისის სახელმწიფო უნივერსიტეტის დიფერენციალური და ინტეგრალური განტოლებების კათედრის ასისტენტი და უფროსი მასწავლებელი
- 1966-1973 წწ. იყო თბილისის სახელმწიფო უნივერსიტეტის ი. ვეკუას სახელობის გამოყენებითი მათემატიკის ინსტიტუტის უფროსი მეცნიერი თანამშრომელი და თბილისის სახელმწიფო უნივერსიტეტის დიფერენციალური და ინტეგრალური განტოლებების კათედრის დოცენტი
- 1972 წ. – დაიცვა სადოქტორო დისერტაცია
- 1973-1989 წწ. იყო თბილისის სახელმწიფო უნივერსიტეტის ი. ვეკუას სახელობის გამოყენებითი მათემატიკის ინსტიტუტის ჩვეულებრივი დიფერენციალური განტოლებების განყოფილების გამგე
- 1973 წ. – იყო ი. ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტის პროფესორი
- 1976 წ. – მიენიჭა პროფესორი წოდება
- 1979 წ. – აირჩიეს საქართველოს მეცნიერებათა აკადემიის წევრ-კორესპონდენტად
- 1993 წ. – აირჩიეს საქართველოს მეცნიერებათა აკადემიის აკადემიკოსად
- 1989 წ. – იყო საქართველოს მეცნიერებათა აკადემიის ა. რაზმაძის სახელობის მათემატიკის ინსტიტუტის დირექტორი
- 2001 წ. – დღემდე ა. რაზმაძის სახელობის მათემატიკის ინსტიტუტის მთავარი მეცნიერ თანამშრომელი და დიფერენციალური განტოლებების განყოფილების გამგე

არის 166 გამოქვეყნებული სამეცნიერო ნაშრომის ავტორი. მათ შორისაა:

მონოგრაფიები და მიმოხილვები:

1. Some singular boundary value problems for ordinary differential equations. (Russian) *Tbilisi University Press, Tbilisi*, 1975.
2. Boundary value problems for systems of ordinary differential equations. (Russian) *Itogi Nauki Tekh., Ser. Sovrem. Probl. Mat., Novejshie Dostizh.* **30** (1987), 3-103; English transl.: *J. Sov. Math.* **43** (1988), No. 2, 2259-2339.

3. Singular boundary value problems for second order ordinary differential equations (with B. L. Shekhter). (Russian) *Itogi Nauki Tekh., Ser. Sovrem. Probl. Mat., Novejshie Dostizh.* **30** (1987), 105-201; English transl.: *J. Sov. Math.* **43** (1988), No. 2, 2340-2417.
4. Asymptotic properties of solutions of nonautonomous ordinary differential equations (with T. Chanturia). (Russian) *Nauka, Moscow*, 1990.
5. Asymptotic properties of solutions of nonautonomous ordinary differential equations (with T. Chanturia). *Kluwer Academic Publishers, Dordrecht-Boston-London*, 1993.
6. On multi-point boundary value problems for systems of functional differential and difference equations (with Sh. Gelashvili). *Mem. Differential Equations Math. Phys.* **5** (1995), 1-113.
7. Initial and boundary value problems for systems of ordinary differential equations, I. (Russian) *Metsniereba, Tbilisi*, 1997.
8. Boundary value problems for systems of linear ordinary differential equations. (Czech) *Masaryk University, Brno*, 1997.
9. Boundary value problems for systems of linear functional differential equations (with B. Půza). *Masaryk University, Brno*, 2003.

სამეცნიერო სტატიები:

10. On the oscillation of solutions of some ordinary differential equations. (Russian) *Dokl. Akad. Nauk SSSR* **144** (1962), No. 1, 33-36; English transl.: *Sov. Math., Dokl.* **3** (1962), 649-652.
11. On oscillation conditions for solutions of the equation $u''+a(t)|u|^n \text{sign } u = 0$. (Russian) *Časop. Pěstov. Mat.* **87** (1962), No. 4, 492-495.
12. On the oscillation of solutions of the equation $d^m u/dt^m + a(t)|u|^n \text{sign } u = 0$. (Russian) *Mat. Sb.* **65** (1964), No. 2, 172-187.
13. On the Cauchy problem for singular systems of ordinary differential equations. (Russian) *Differentsial'nye Uravneniya* **1**(1965), No. 10, 1271-1291; English transl.: *Differ. Equations* **1** (1965), 995-1011.
14. Asymptotic properties of solutions of a nonlinear differential equation of Emden-Fowler type. (Russian) *Izv. Akad. Nauk SSSR. Ser. Mat.* **29**(1965), No. 5, 965-986.
15. On some singular boundary value problems for nonlinear second order ordinary differential equations. (Russian) *Differentsial'nye Uravneniya* **4** (1968), No. 10, 1753-1773; English transl.: *Differ. Equations* **4** (1968), 901-910.
16. On monotone solutions of nonlinear n -th order ordinary differential equations. (Russian) *Izv. Akad. Nauk SSSR. Ser. Mat.* **33** (1969), No. 6, 1373-1398; English transl.: *Math. USSR, Izv.* **3** (1969), 1293-1317.
17. On a singular multi-point boundary value problem. *Ann. Mat. Pura Appl.* **86** (1970), 367-399.
18. On a singular boundary value problem. *J. Math. Anal. Appl.* **30** (1970), No. 3, 475-489.
19. Oscillatory solutions for a generalized sublinear second order differential equation (with J. W. Heidel). *Proc. Amer. Math. Soc.* **38** (1973), No. 1, 80-82.
20. On a singular problem of Cauchy-Nicoletti. *Ann. Mat. Pura Appl.* **104** (1975), 151-175.
21. On the modified problem of Cauchy-Nicoletti. *Ann. Mat. Pura Appl.* **104** (1975), 177-186.
22. On oscillatory and monotone solutions of ordinary differential equations. *Arch. Math.* **14** (1978), No. 1, 21-44.
23. On asymptotic behaviour of solutions of nonlinear non-autonomous ordinary differential equations. *Qual. Theory Differ. Equations, V. 1, Amsterdam e.a.*, 1981, 507-554.
24. On strongly increasing solutions of nonlinear ordinary differential equations (with G. G. Kvinikadze). *Ann. Math. Pura Appl.* **130** (1982), 67-87.
25. On vanishing at infinity solutions of ordinary differential equations. *Czechoslovak Math. J.* **33** (1983), No. 4, 613-646.
26. On certain boundary-value problems for second-order linear ordinary differential equations with singularities (with A. G. Lomtatidze). *J. Math. Anal. Appl.* **101** (1984), No. 2, 325-347.
27. On bounded and periodic solutions of linear higher order differential equations. (Russian) *Mat. Zametki* **37** (1985), No. 1, 48-62; English transl.: *Math. Notes* **37** (1985), 28-36.
28. On the solvability of the Vallée-Poussin problem. (Russian) *Differentsial'nye Uravneniya* **21** (1985), No. 3, 391-398; English transl.: *Differ. Equations* **21** (1985), 249-255.

29. On periodic solutions of systems of nonautonomous ordinary differential equations. (Russian) *Mat. Zametki* **39** (1986), No. 4, 562-575; English transl.: *Math. Notes* **39** (1986), 308-315.
30. On systems of ordinary differential equations and differential inequalities with multi-point boundary conditions. (Russian) *Differentsial'nye Uravneniya* **33** (1997), No. 5, 646-652; English transl.: *Differ. Equations* **33** (1997), No. 5, 649-655.
31. On vanishing at infinity solutions of second order linear differential equations with advanced arguments (with Z. Došla). *Funkcial. Ekvac.* **41** (1998), No.2, 189-205.
32. On the oscillation of solutions of higher order Emden-Fowler advanced differential equations (with I. P. Stavroulakis). *Appl. Anal.* **70** (1998), No. 1-2, 97-112.
33. On periodic solutions of n th order ordinary differential equations. *Nonlinear Anal.* **40** (2000), No. 1-8, 309-321.
34. On blow-up Kneser solutions of higher order nonlinear differential equations. (Russian) *Differentsial'nye Uravneniya* **37** (2001), No. 6, 735-743; English transl.: *Differ. Equations* **37** (2001), No. 6, 768-777.
35. On periodic solutions of even-order ordinary differential equations (with T. Kusano). *Ann. Mat. Pura Appl.* **180** (2001), No. 3, 285-301.
36. On periodic boundary value problem for the equation $u''=f(t,u,u')$ with one-sided growth restrictions on f (with S. Staněk). *Nonlinear Anal.* **48** (2002), No. 7, 1065-1075.
37. On the Kneser problem for two-dimensional differential systems with advanced arguments (with N. Partsvania). *J. Inequal. Appl.* **7** (2002), No. 4, 453-477.
38. On boundary value problems for linear differential systems with singularities. (Russian) *Differentsial'nye Uravneniya* **39** (2003), No. 2, 198-209; English. transl.: *Differ Equations* **39** (2003), No. 2, 212-225.
39. Some optimal conditions for the solvability of two-point singular boundary value problems. *Funct. Differ. Equ.* **10** (2003), No. 1-2, 259-281.
40. On periodic type solutions of systems of linear ordinary differential equations. *Abstr. Appl. Anal.* (2004), No. 5, 395-406.
41. On multi-point boundary value problems for linear ordinary differential equations with singularities (with R. Agarwal). *J. Math. Anal. Appl.* **297** (2004), 131-151.
42. On periodic solutions of two-dimensional nonautonomous differential systems (with S. Mukhigulashvili). *Nonlinear Anal.* **60** (2005), No. 2, 241-256.
43. Two-point boundary value problems for higher-order linear differential equations with strong singularities (with R. P. Agarwal). *Boundary Value Problems* 2006, 1-32; Article ID 83910.
44. On nonlinear boundary value problems for higher order ordinary differential equations. *Proceedings of the Conference on Differential & Difference Equations and Applications, Hindawi Publ. Corp.*, 2006, 529-540.
45. On nonnegative solutions of singular boundary value problems for Emden-Fowler-type differential systems (with M. Cecchi, Z. Dosla, and M. Marini). *Differential and Integral Equations* **20** (2007), No. 10, 1081-1106.
46. On solvability of boundary value problems for higher order nonlinear hyperbolic equations (with T. Kiguradze). *Nonlinear Analysis: Theory, Methods & Applications* **69** (2008), 1914-1933.
47. On a resonance periodic problem for non-autonomous high order differential equations. (Russian) *Differentsial'nye Uravneniya* **44** (2008), No. 8, 1022-1032; English transl.: *Differential Equations* **44** (2008), No. 8, 1053-1063.
48. On solvability conditions for nonlinear operator equations. *Mathematical and Computer Modelling* **48** (2008), No. 11-12, 1914-1924.
49. Second-order nonlinear differential equations with infinite set of periodic solutions. *Nonlinear Oscillations* **11** (2008), No. 4, 521-526.
50. The Neumann problem for the second order nonlinear ordinary differential equations at resonance. *Functional Differential Equations* **16** (2009), No. 2, 353-371.
51. Bounded and vanishing at infinity solutions of nonlinear differential systems. *Georgian Math. J.* **16** (2009), No. 4, 711-724.
52. On boundary value problems with conditions at infinity for nonlinear differential systems. *Nonlinear Analysis: Theory, Methods & Applications* **71** (2009), 1503-1512. [pdf](#)

53. Periodic solutions of nonautonomous ordinary differential equations (with A. Lomtatidze). *Monatsh. Math.* **159** (2010), No. 3, 235-252. [pdf](#)
54. Optimal conditions of solvability and unsolvability of nonlocal problems for essentially nonlinear differential systems. *Comm. Math. Anal.* **8** (2010), No. 3, 92-01. [pdf](#)
55. Optimal conditions of solvability of nonlocal problems for second-order ordinary differential equations (with T. Kiguradze). *Nonlinear Anal.* **74** (2011), No. 3, 757-767. [pdf](#)
56. Conditions for the well-posedness of nonlocal problems for second-order linear differential equations (with T. Kiguradze). (Russian) *Differentsial'nye Uravneniya* **47** (2011), No. 10, 1400-1411; English transl.: *Differ. Equ.* **47** (2011), No. 10, 1414-1425. [pdf_russian](#), [pdf_english](#)
57. Conditions for well-posedness of nonlocal problems for higher order linear differential equations with singularities (with T. Kiguradze). *Georgian Math. J.* **18** (2011), No. 4, 735-760.
58. Solvability conditions for non-local boundary value problems for two-dimensional half-linear differential systems (with J. Šremr). *Nonlinear Anal.* **74** (2011), 6537-6552. [pdf](#)
59. The Dirichlet and focal boundary value problems for higher order quasi-half linear singular differential equations. *Mem. Differential Equations Math. Phys.* **54** (2011), 126-133. [pdf](#)
60. Some multi-point boundary value problems for second order singular differential equations (with A. Lomtatidze and N. Partsvania). *Mem. Differential Equations Math. Phys.* **56** (2012), 133-141. [pdf](#)
61. On nonlocal problems with nonlinear boundary conditions for singular ordinary differential equations. *Mem. Differential Equations Math. Phys.* **59** (2013), 113-119. [pdf](#)
62. The Cauchy problem for singular in phase variables nonlinear ordinary differential equations. *Georgian Math. J.* **20** (2013), No. 4, 707-720.
63. A priori estimates of solutions of nonlinear boundary value problems for singular in a phase variable second order differential inequalities. *Georgian Math. J.* **21** (2014), No. 2, 211-224.
64. Nonlinear nonlocal problems for second order singular in a phase variable differential equations. (Russian) *Differentsial'nye Uravneniya* **50** (2014), 1018-1034; English transl.: *Differ. Equ.* **50** (2014), No. 3, 1025-1041. [pdf_russian](#), [pdf_english](#)
65. Positive solutions of periodic type boundary value problems for first order singular functional differential equations (with Z. Sokhadze). *Georgian Math. J.* **21** (2014), No. 3, 303-311.
66. A priori estimates of solutions of nonlinear boundary value problems for singular in phase variables higher order differential inequalities and systems of differential inequalities. *Mem. Differential Equations Math. Phys.* **63** (2014), 105-121. [pdf](#)
67. On nonlinear boundary value problems for higher order functional differential equations (with Z. Sokhadze). *Georgian Math. J.* **23** (2016), No. 4, 537-550.
68. On a boundary value problem on an infinite interval for nonlinear functional differential equations (with Z. Sokhadze). *Georgian Math. J.* **24** (2017), No. 2, 217-225.
69. On an analogue of Fredholm's theorem for nonlinear differential equations of higher order (with T. Kiguradze). (Russian) *Differ. Uravn.* **53** (2017), No. 8, 1024-1032; English transl.: *Differ. Equ.* **53** (2017), No. 8, 996-1004.