

List of works of David Zarnadze from 2018

1. (with Ugulava D.K.). On ill-posed problem and associated with them orbital operators. Reports of enlarged XXXII session of I.N.Vekua Inst. of applied Math. (VIAM), 2018, p.70-82, http://www.viam.science.tsu.ge/enl_ses/vol32/Ugulava_Zarnadze.pdf
2. D. Ugulava, D. Zarnadze, A linear spline algorithms of computerized tomography in the space of n-orbits, *Georgian Mathematical Journal* 29 (6), 939-952, DOI: 10.1515/gmj-2022-2185.
3. D. Ugulava, D. Zarnadze, On a central algorithm for calculation of the inverse of the harmonic oscillator in the spaces of orbits, *J. Complexity* 68 (2022), Paper No. 101599, 12 pp., <https://doi.org.10.1016/j.jco.2022.101599>.
4. D. Ugulava, D. Zarnadze, Orbitization of quantum mechanics, *GESJ: Computer Sciences and Telecommunications* 2022 no. 1(61), pp. 59-63 <http://gesj.internet-academy.org/-download.php?id=3579.pdf>.
5. D. Ugulava, D. Zarnadze. A generalization of the canonical commutation relation and Heisenberg Uncertainty Principle for the orbital operators. *Georgian Math. Journal Manuscript* DOI: 10.1515/gmj-2023-2038, Manuscript ID: gmj-2023-2038.
6. D. Ugulava, D. Zarnadze. Canonical commutation relation for orbital operators corresponding to Creation and Annihilation Operators. *Bulletin TICM*, 27:1, 2023, p.1-12.
7. D.Zarnadze, Z.Chkonia, S.Tsotniashvili. Some logical and legal issues of the linguistic definition of the concept of citation and the citation rule. *Gori State University, Journal of Scientific Research*, V.5, N1, 2023, 13-20.

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8. On approximative compactness in countable normed Frechet spaces. [Soobshch. Akad. Nauk Gruz. SSR](#) 78, 29-32 (1975). (Russian). *MSC 2000*: VR *46A03 46E35 46A35, 3
9. Characterization of the best approximation elements with the linear functionals in linear metric spaces. [Soobshch. Akad. Nauk Gruz. SSR](#) 79, 289-292 (1975). (Russian) *MSC 2000*: *41A30, Zbl 346, 41623
10. On sufficient condition of the property (E) in metrizable locally convex spaces. *Tr., Vychisl. Tsentr Im. N.I. Muskhelishvili* 16, No.1, 57-65 (1976). (Russian) *MSC 2000*: MR 57, 41A65, 46F05
11. On sufficient condition of the property (E) in locally convex spaces. *Tr., Vychisl. Tsentr Im. N.I. Muskhelishvili* 17, No.1, (1977). (Russian) *MSC 2000*: 58#6870, 41A65
12. On approximative compactness in locally convex spaces. *Tr., Vychisl. Tsentr Im. N.I. Muskhelishvili* 18, No.1, (1978). (Russian) *MSC 2000*: MR 80g, 46006, 46A12
13. On some locally convex spaces of continuous functions and Radon measures. *Tr., Vychisl. Tsentr Im. N.I. Muskhelishvili* 19, No.1, 29-40 (1979). (Russian) *MSC 2000*: *46E10 46E27 46A13, Zbl 475, 46021
14. Reflexivity and best approximations in Frechet spaces. [Math. USSR, Izv.](#) 17, 87-94 (1981). (English). *MSC 2000*: *46A04 41A50 46A13, Zbl 454 46003, 463 46001 [Izv. Akad. Nauk SSSR, Ser. Mat.](#) 44, 821-830 (1980). (Russian). *MSC 2000*: *46A04 46A13 46A11. . (IF).
15. On representations of strict (LF)-spaces. *Tr., Vychisl. Tsentr Im. N. I. Muskhelishvili* 20, No.1, 39-53 (1980). (Russian) *MSC 2000*: *46A13 46A11 46F05

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17. On representations of the topology of spaces of basic functions and distributions. (Russian). Proc. int. Conf., Generalized functions and their applications in mathematical physics Moscow 1980, 250-255 (1981). *MSC 2000:MR 84d*: 46050, 46F05, 46A12, Zbl 513, *[46027](#), [46A13](#) [46A11](#)
18. Reflexivity and best approximations in certain locally convex spaces. (Russian). Tr., Vychisl. Tsentri Im. N.I. Muskhelishvili 22, No.1, 40-52 (1982). *MSC 2000:MR85j*: 4601146A20, 41A65, 46A06 Zbl 541, 46001, *[46A04](#) [46A13](#) [46A11](#), *Reviewer*: C.Nemethi.
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20. Strictly regular Frechet spaces. [Math. Notes](#) 31, 454-458 (1982). (English), translation from Mat. Zametki 31, 899-908 (1982) (Russian). *MSC 2000: MR 84j*:46002,46A06, 46A12, Zbl 562,46001, *[46A04](#) [46A13](#) [46A11](#), *Reviewer*: V.Eberhardt. **.(IF)**.
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25. On strict regularity of measure spaces and of continuous functions on paracompact locally compact spaces. I. (Russian). Tr., Inst. Vychisl. Mat. Im. N. I. Muskhelishvili 25, No.1, 43-56 (1985). *MSC 2000:MR 87i*:46057, 46E10, Zbl 583, 54009 *[54C35](#) [46E27](#), *Reviewer*: E.Ihle
26. Remarks on the metrization theorem of a linear topological space. (English). [Math. Notes](#) 37, 421-426 (1985); translation from Mat. Zametki 37, No.5, 763-773 (1985). (Russian). *MSC 2000:MR 87c*: 46004, 46F06, Zbl 583^ 46001 *[46A04](#) [46A55](#) [46E30](#), *Reviewer*: M.Turinici. **.(IF)**.
27. Homomorphisms of locally convex spaces and their conjugate mappings. (Russian). Tr., Inst. Vychisl. Mat. Im. N. I. Muskhelishvili 26, No.1, 65-75 (1986). *MSC 2000: MR 88m*: 46004, 46A05, 46A30, ZBL 639, 46006, *46A20, 46A30, 47A05. *Reviewer*: A. Haimovici.
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32. On Sobolev spaces of infinite order and nuclear property of embedding operators. (Russian). Tr., Inst. Vychisl. Mat. Im. N. I. Muskhelishvili 28, No.1, 108-113 (1988). *MSC 2000*: MR 90e: 46030, 46E35, 47B38, [47B10](#), *Reviewer*: S.Wedrychowicz Zbl 693, 46038 *[46E35](#) [47B10](#), *Reviewer*: H. Triebel
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Support manuals

1. General Skills Logic Self-Teacher. Tbilisi, Publishing House "Tsioni", (Georgian), 2013, 384 p.
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Monograph

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