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Mathematical Reviews

Review history of S. Kutateladze

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2024 (5 reviews)

- Nov 25 **MR4687188** Roth, Walter Integral representation—Choquet theory for linear operators on function spaces. *De Gruyter Expositions in Mathematics*, 74. *De Gruyter, Berlin*, [2023], ©2023. xi+251 pp. ISBN: 978-3-11-131450-1; 978-3-11-131547-8; 978-3-11-131558-4 46-02 (46A03 46A20 46A32 46A55 46E40 46G10)
- Nov 22 **MR4716497** Tsar'kov, I. G. Kuhn-Tucker type theorems in cone and linear normed spaces. (Russian) ; *translated from Mat. Zametki* **114** (2023), no. 6, 909--921 *Math. Notes* **114** (2023), no. 5-6, 1358--1367 41A65 (46N10)
- Jun 24 **MR4712712** Siqueira, José Nonstandard proof methods in toposes. *Ann. Pure Appl. Logic* **175** (2024), no. 5, Paper No. 103424, 20 pp. 03H05 (03G30 18B05 18B25)
- Jun 12 **MR4592564** Lindstrøm, Tom The allure of infinitesimals: Sergio Albeverio and nonstandard analysis. *Quantum and stochastic mathematical physics*, 187--215, Springer Proc. Math. Stat., 377, Springer, Cham, [2023], ©2023. 03H05 (03-03 46S20 81T05)
- Mar 01 **MR4658781** Bednov, B. B. Three-dimensional spaces where all bounded Chebyshev sets are monotone path connected. (Russian) ; *translated from Mat. Zametki* **114** (2023), no. 3, 323--338 *Math. Notes* **114** (2023), no. 3-4, 283--295 41A65 (41A50 46B20)

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- Dec 04 **MR4615486** Mizuguchi, Hiroyasu A lower bound for the constant $\$A_1(X)\$ in normed linear spaces. *Beitr. Algebra Geom.* **64** (2023), no. 3, 535--543. 46B20 (51B20 52A21)$
- Oct 25 **MR4571472** Berger, Josef; Svindland, Gregor Constructive convex optimisation. *Handbook of constructive mathematics*, 286--301, Encyclopedia Math. Appl., 185, Cambridge Univ. Press, Cambridge, 2023. 03F60 (26E40 90C25)
- Oct 02 **MR4602425** Balashov, M. V. Sufficient conditions for the linear convergence of an algorithm for finding the metric projection of a point onto a convex compact set. (Russian) ; *translated from Mat. Zametki* **113** (2023), no. 5, 655--666 *Math. Notes* **113** (2023), no. 5-6, 632--641 90C25 (49J52 52A05)
- Aug 11 **MR4531243** Becker, Robert A. Maximal points of convex sets in ℓ_∞ revisited. *Pure Appl. Funct. Anal.* **7** (2022), no. 6, 2003--2039. 46N10 (91B02 91B06 91B50)
- May 02 **MR4494611** Bauschke, Heinz H.; Wang, Xianfu Roots of the identity operator and proximal mappings: (classical and phantom) cycles and gap vectors. *Proc. Amer. Math. Soc.* **150** (2022), no. 12, 5383--5395. 47H05 (46C05 47H10 49J53 52A41 90C25 90C48)
- Mar 24 **MR4494599** Gallardo-Gutiérrez, Eva A.; González-Doña, Javier; Tradacete, Pedro Invariant subspaces for positive operators on Banach spaces with unconditional basis. *Proc. Amer. Math. Soc.* **150** (2022), no. 12, 5231--5242. 46A40 (46B40 47B60)

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- Sep 12 **MR4424965** Debin, Clément; Fillastre, François Hyperbolic geometry of shapes of convex bodies. *Groups Geom. Dyn.* **16** (2022), no. 1, 115--140. 52A20 (52A55)

Optimization **71** (2022), no. 4, 1213--1248. 52A30 (49J52 52A07)

- Jul 27 **MR4311710** Tsar'kov, I. G. Properties of suns in the spaces L^1 and $C(Q)$. *Russ. J. Math. Phys.* **28** (2021), no. 3, 398--405. 41A65 (46B20)
- Jul 06 **MR4384753** DeCorte, Evan; de Oliveira Filho, Fernando Mário; Vallentin, Frank Complete positivity and distance-avoiding sets. *Math. Program.* **191** (2022), no. 2, Ser. A, 487--558. 90C25 (46N10 51K99 52C10 90C22 90C34 90C48)
- Mar 30 **MR4329409** Termkaew, Sakan; Kumam, Poom; Chaipunya, Parin Splitting proximal algorithms for convex optimizations over metric spaces with curvature bounded above. *Thai J. Math.* **19** (2021), no. 2, 693--711. 90C25 (90C48)
- Mar 30 **MR4281457** Plakhov, Alexander Method of nose stretching in Newton's problem of minimal resistance. *Nonlinearity* **34** (2021), no. 7, 4716--4743. 52A15 (49Q10 52A40)
- Mar 29 **MR4184933** Gorokhovik, V. V.; Tykun, A. S. Support points of lower semicontinuous functions with respect to the set of Lipschitz concave functions. (Russian) *Dokl. Nats. Akad. Nauk Belarusi* **63** (2019), no. 6, 647--653. 49J52 (26B25 46T20 52A41)
- Feb 11 **MR4137836** Chill, Ralph; Pliev, Marat Atomic operators in vector lattices. *Mediterr. J. Math.* **17** (2020), no. 5, Paper No. 138, 20 pp. 47B60 (46A19 46A22 46A40 47H07)
- Jan 14 **MR4282101** Moreno, José Pedro Porosity and diametrical completeness. *Israel J. Math.* **242** (2021), no. 2, 875--890. 46B20 (52A07)

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- Aug 13 **MR4167895** Sumin, M. I. On the regularization of the Lagrange principle and the construction of generalized minimizing sequences in convex constrained optimization problems. (Russian) *Vestn. Udmurt. Univ. Mat. Mekh. Komp'yut. Nauki* **30** (2020), no. 3, 410--428. 90C25 (47N10 65F22 90C48)
- Jul 23 **MR4199643** Chancelier, Jean-Philippe; De Lara, Michel Hidden convexity in the L_0 pseudonorm. *J. Convex Anal.* **28** (2021), no. 1, 203--236. 46N10 (26B25 49N15 52A41)
- Mar 31 **MR4163726** Kimura, Yasunori; Shindo, Keisuke Asymptotic behavior of resolvents at zero on complete geodesic spaces with a curvature bounded above. *J. Nonlinear Convex Anal.* **21** (2020), no. 9, 2043--2048. 90C25 (47J05 90C48)
- Mar 09 **MR4154320** Hamada, Naoki; Hayano, Kenta; Ichiki, Shunsuke; Kabata, Yutaro; Teramoto, Hiroshi Topology of Pareto sets of strongly convex problems. *SIAM J. Optim.* **30** (2020), no. 3, 2659--2686. 90C25 (57R35 57R45 90C29)
- Jan 22 **MR4058036** Reich, Simeon; Zaslavski, Alexander J. Asymptotic behavior of continuous descent methods with a convex objective function. *J. Convex Anal.* **27** (2020), no. 2, 559--566. 90C25 (47J35 49M37 90C48)

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- Nov 18 **MR4119690** Reich, Simeon; Zaslavski, Alexander J. Inexact descent methods for convex minimization problems in Banach spaces. *Carpathian J. Math.* **36** (2020), no. 1, 141--146. 90C25 (49M37 90C48)
- May 29 **MR4049562** Gordon, E. I. Some remarks about nonstandard methods in analysis. I. *Vladikavkaz. Mat. Zh.* **21** (2019), no. 4, 25--41. 03H05 (03E35 46A40)
- Mar 03 **MR4017743** Anh, Nguyen Le Hoang On higher-order sensitivity analysis of parametric Henig set-valued equilibrium problems. *Numer. Funct. Anal. Optim.* **40** (2019), no. 15, 1822--1839. 46N10 (49J53 49K40 54C60 90C29 90C31 90C48)
- Jan 31 **MR3981821** Khabibullin, B. N.; Rozit, A. P.; Khabibullina, È. B. Order versions of the Hahn-Banach theorem and envelopes. II. Applications in function theory. (Russian) Translation in *J. Math. Sci.* 257 (2021), no. 3, 366--409. Itogi Nauki Tekh. Ser. Sovrem. Mat. Prilozh. Temat. Obz., 162, *Complex analysis. Mathematical physics (Russian)*, 93--135, *Vseross. Inst. Nauchn. i Tekhn. Inform. (VINITI), Moscow*, 2019. 46A22 (31C05 32A40 32U05 46A40 46E05)

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- Dec 13 **MR3901986** Arutyunov, Aram V.; Zhukovskiy, Evgeny S.; Zhukovskiy, Sergey E. Caristi-like condition and the existence of minima of mappings in partially ordered spaces. *J. Optim. Theory Appl.* **180** (2019), no. 1, 48--61. 49J27 (06A06 49J52 65K10)
- Nov 18 **MR3987047** de Jeu, Marcel; van der Walt, Jan Harm On order continuous duals of vector lattices of continuous functions. *J. Math. Anal. Appl.* **479** (2019), no. 1, 581--607. 46A40 (46E05)

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- Aug 29 **MR3955788** Luan, Nguyen Ngoc Efficient solutions in generalized linear vector optimization. *Appl. Anal.* **98** (2019), no. 9, 1694--1704. 90C25 (52A07 52B12 90C05 90C48)
- Jul 18 **MR3925303** Krutikov, V. N.; Samoilenko, N. S.; Meshechkin, V. V. On the properties of a convex function minimization method that is relaxational with respect to distance to the extremum. (Russian) ; translated from *Avtomat. i Telemekh.* **2019**, , no. 1, 126--137 *Autom. Remote Control* **80** (2019), no. 1, 102--111 90C55 (65K05 90C25)

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- Nov 07 **MR3826901** Orlov, I. V. Generalized Hamel basis and basis extension in convex cones and uniquely divisible semigroups. *Eurasian Math. J.* **9** (2018), no. 1, 69--82. 52A01 (20M14 46A55 47L07)
- Oct 09 **MR3814691** Yao, Chaoli; Li, Shengjie Vector topical function, abstract convexity and image space analysis. *J. Optim. Theory Appl.* **177** (2018), no. 3, 717--742. 90C29 (90C30 90C48)
- Oct 05 **MR3818551** Seeger, Alberto; Torki, Mounir Measuring axial symmetry in convex cones. *J. Convex Anal.* **25** (2018), no. 3, 983--1011. 52A20 (47L07 52A40 52A41)
- Sep 22 **MR3818162** Li, G. H.; Li, S. J.; You, M. X. Relationships between the oriented distance functional and a nonlinear separation functional. *J. Math. Anal. Appl.* **466** (2018), no. 1, 1109--1117. 49J52 (49J53 90C29 90C48)
- Aug 13 **MR3799750** Koszmider, Piotr Uncountable equilateral sets in Banach spaces of the form $C(K)$. *Israel J. Math.* **224** (2018), no. 1, 83--103. 46B20 (03E05 03E50 54C35)
- Jul 02 **MR3779768** Gao, Ji The introduction of new modulus $\zeta_X(\varepsilon)$, uniform non-squareness and uniform normal structure in Banach spaces. *Rev. Roumaine Math. Pures Appl.* **63** (2018), no. 1, 49--59. 46B20 (52A07)
- May 02 **MR3743409** Teplitskaya, Ya. Regularity of the minimizers of a maximum distance functional. (Russian) ; translated from *Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. (POMI)* **462** (2017), Teoriya Predstavlenii, Dinamicheskie Sistemy, Kombinatornye Metody. XXVIII, 103--111 *J. Math. Sci. (N.Y.)* **232** (2018), no. 2, 164--169 52A40 (49N60)
- May 02 **MR3745215** Kimura, Yasunori An approximation method with nonsummable errors for convex minimization problems. *Linear Nonlinear Anal.* **3** (2017), no. 3, 401--407. 90C25 (47J25 90C48)
- Mar 24 **MR3733998** Köbis, Elisabeth Set optimization by means of variable order relations. *Optimization* **66** (2017), no. 12, 1991--2005. 90C29 (49K27 90C48)
- Feb 05 **MR3684715** Kamenev, G. K. A multicriteria identification and forecasting method. (Russian) ; translated from *Mat. Model.* **29** (2017), no. 8, 29--43 *Math. Models Comput. Simul.* **10** (2018), no. 2, 154--163 90C29 (93B30)

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- Nov 21 **MR3620403** Nevskii, M. V.; Ukhalov, A. Yu. New estimates for numerical values related to a simplex. (Russian) *Model. Anal. Inf. Sist.* **24** (2017), no. 1, 94--110. 52A20
- Jun 21 **MR3609293** Kuterin, F. A.; Sumin, M. I. Stable iterative Lagrange principle in convex programming as a tool for solving unstable problems. *Comput. Math. Math. Phys.* **57** (2017), no. 1, 71--82. 90C25 (90C31 90C48)
- Apr 13 **MR3570554** Kusraeva, Z. A. Characterization and multiplicative representation of homogeneous polynomials that preserve disjointness. (Russian) *Vladikavkaz. Mat. Zh.* **18** (2016), no. 1, 51--62. 47B65 (46A40 47H07)
- Mar 28 **MR3507418** Pernaï, V. V. On the complexity of the family of convex sets in \mathbb{R}^d . (Russian) ; translated from *Mat. Zametki* **99** (2016), no. 4, 537--549 *Math. Notes* **99** (2016), no. 3-4, 534--544 47L07 (40A05 40H05 52A21)
- Feb 22 **MR3525628** Gasnikov, A. V.; Dvurechenskiï, P. E. The stochastic intermediate gradient method for convex optimization problems. (Russian) ; translated from *Dokl. Akad. Nauk* **467** (2016), no. 2, 131--134 *Dokl. Math.* **93** (2016), no. 2, 148--151 90C25 (90C56)

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- Dec 28 **MR3520900** Postolică, Vasile Efficiency in infinite dimensional ordered vector spaces. *ROMAI J.* **11** (2015), no. 2, 25--49. 90C29 (90C48 91B50)

- convex integrable objective function and geometric constraint set. *J. Chungcheong Math. Soc.* **29** (2016), no. 1, 29--35. 90C25 (90C48)
- Oct 26 **MR3492894** Kusraev, A. G. A Boolean-valued transfer principle for injective Banach lattices. (Russian) ; translated from *Sibirsk. Mat. Zh.* **56** (2015), no. 5, 1105--1123 *Sib. Math. J.* **56** (2015), no. 5, 888--900 46B42 (03C90 03E40 46S20)
- Sep 22 **MR3504397** Florea, Elena-Andreea Codrivative necessary optimality conditions for sharp and robust efficiencies in vector optimization with variable ordering structure. *Optimization* **65** (2016), no. 7, 1417--1435. 90C48 (49J52 90C29)
- Aug 29 **MR3475123** Zabotin, I. Ya.; Shul'gina, O. N.; Yarullin, R. S. A cutting method and construction of mixed minimization algorithms based on it. (Russian) *Uch. Zap. Kazan. Univ. Ser. Fiz.-Mat. Nauki* **156** (2014), no. 4, 14--24. 90C25 (90C59)
- Jul 29 **MR3468084** Amirkhanova, G. A.; Golikov, A. I.; Evtushenko, Yu. G. On an inverse linear programming problem. (Russian) ; translated from *Tr. Inst. Mat. Mekh.* **21** (2015), no. 3, 13--19 *Proc. Steklov Inst. Math.* **295** (2016), suppl. 1, S21--S27 90C05 (90C31)
- May 31 **MR3445550** Bauschke, Heinz H.; Iorio, Francesco; Koch, Valentin R. The method of cyclic intrepid projections: convergence analysis and numerical experiments. *The impact of applications on mathematics*, 187--200, Math. Ind. (Tokyo), 1, Springer, Tokyo, 2014. 90C25 (65K05 90C48)
- Apr 11 **MR3409515** Wolff, Manfred P. H. Banach spaces and linear operators. *Nonstandard analysis for the working mathematician*, 107--162, Springer, Dordrecht, 2015. 03H05 (46S20 47S20)

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- Nov 13 **MR3363381** Erokhin, V. I.; Krasnikov, A. S.; Khvostov, M. N. On sufficient conditions for the solvability of linear programming problems under matrix correction of their constraints. (Russian) *Tr. Inst. Mat. Mekh.* **19** (2013), no. 2, 144--156. 90C05
- Aug 03 **MR3346200** Balashov, M. V. Antidistance and antiprojection in the Hilbert space. *J. Convex Anal.* **22** (2015), no. 2, 521--536. 46B20
- Jul 23 **MR3341664** Newhall, Joseph; Goodrich, Robert K. On the density of Henig efficient points in locally convex topological vector spaces. *J. Optim. Theory Appl.* **165** (2015), no. 3, 753--762. 90C29 (46A03 46N10 90C48)
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- May 28 **MR3293545** Grzybowski, J.; Kalcsics, J.; Nickel, S.; Pallaschke, D.; Urbański, R. On topological types of ordered median functions. *Optimization* **64** (2015), no. 1, 149--160. 90C47 (26B40 90B80 90B85)
- Apr 02 **MR3284334** Kochubei, Anatoly N. Non-Archimedean group algebras with Baer reductions. *Algebr. Represent. Theory* **17** (2014), no. 6, 1861--1867. 47S10 (22D15 43A99 47L10)

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- Oct 29 **MR3221709** Capătă, Adela Elisabeta The convergence of Henig efficient solutions net for vector equilibrium problems. *Ann. Tiberiu Popoviciu Semin. Funct. Equ. Approx. Convexity* **11** (2013), 29--39. 90C33 (49K40 58E17)
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- Jul 30 **MR3081212** Uderzo, A. On the Polyak convexity principle and its application to variational analysis. *Nonlinear Anal.* **91** (2013), 60--71. 49J53 (46A55 52A21 90C30 90C46)
- Jul 14 **MR3170555** Sumin, M. I. Stable sequential convex programming in a Hilbert space and its application for solving unstable problems. *Comput. Math. Math. Phys.* **54** (2014), no. 1, 22--44. 90C31 (49K40 90C25 90C48)

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- Apr 11 **MR3129339** Hu, X. F.; Wang, L. N. Lagrangian duality for multiobjective programming problems in lexicographic order. *Abstr. Appl. Anal.* **2013**, Art. ID 573408, 6 pp. 90B50 (90C25 90C29 90C46)
- Mar 27 **MR3123831** Bello Cruz, J. Y. A subgradient method for vector optimization problems. *SIAM J. Optim.* **23** (2013), no. 4, 2169--2182. 90C29 (90C25)

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- Aug 15 **MR3034438** Capraro, Valerio; Fritz, Tobias On the axiomatization of convex subsets of Banach spaces. *Proc. Amer. Math. Soc.* **141** (2013), no. 6, 2127--2135. 52A01 (46A55 52A05)
- May 13 **MR3000566** Moser, Bernhard A. Geometric characterization of Weyl's discrepancy norm in terms of its n -dimensional unit balls. *Discrete Comput. Geom.* **48** (2012), no. 4, 793--806. 52A07 (46B20 52B12 68W99 94A17)
- Apr 23 **MR2987850** Weis, Stephan A note on touching cones and faces. *J. Convex Anal.* **19** (2012), no. 2, 323--353. 52A10 (47L07 52A20)
- Feb 21 **MR2960802** Hernández, Elvira; Rodríguez-Marín, Luis; Sama, Miguel About Hahn-Banach extension theorems and applications to set-valued optimization. *Comput. Math. Appl.* **64** (2012), no. 6, 1778--1788. 46A22 (90C29 90C48)

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- Sep 04 **MR2885320** Eichfelder, Gabriele Variable ordering structures in vector optimization. *Recent developments in vector optimization*, 95--126, Vector Optim., Springer, Berlin, 2012. 90C29 (49M37)
- Jun 04 **MR2861512** Wang, Qilin; Yu, Guolin Second-order optimality conditions for set-valued optimization problems under Benson proper efficiency. *Abstr. Appl. Anal.* **2011**, Art. ID 432963, 16 pp. 49K27 (49J52 90C29 90C48)
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- Mar 23 **MR2856746** Linke, Yu. È. Universal spaces of subdifferentials of sublinear operators with values in the cone of bounded lower semicontinuous functions. (Russian) ; translated from *Mat. Zametki* **89** (2011), no. 4, 547--557 *Math. Notes* **89** (2011), no. 3-4, 519--527 49J52 (47A62)
- Mar 14 **MR2841500** Bykov, Yu. V. Lattices, invariant with respect to finite linear groups, in a one-dimensional quaternionic linear space. (Russian) ; translated from *Mat. Zametki* **89** (2011), no. 1, 122--126 *Math. Notes* **89** (2011), no. 1-2, 133--137 11H99 (11R52)
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Jul 16 **MR2465304** Rezaie, M.; Zafarani, J. Vector optimization and variational-like inequalities. *J. Global Optim.* **43** (2009), no. 1, 47--66. 90C29 (47H05 47J20 49J40 49J52 52A41)

Apr 09 **MR2442917** Boț, Radu Ioan; Grad, Anca; Wanka, Gert Sequential characterization of solutions in convex composite programming and applications to vector optimization. *J. Ind. Manag. Optim.* **4** (2008), no. 4, 767--782. 90C25 (90C29 90C48)

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Sep 17 **MR2399469** Zinchenko, Yuriy On hyperbolicity cones associated with elementary symmetric polynomials. *Optim. Lett.* **2** (2008), no. 3, 389--402. 52A40 (90C25)

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