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Mathematical Reviews

Review history of S. Kutateladze

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2023 (2 reviews)

- 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)
- Jul 29 **MR4420939** Zaffaroni, A. Separation, convexity and polarity in the space of normlinear functions. *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** Gorokhovich, 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 $\| \cdot \|_0$ 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)
- Nov 04 **MR3982293** Sengupta, R.; Zhukovskiy, S. E. Minima of functions on (q_1, q_2) -quasimetric spaces. *Eurasian Math. J.* **10** (2019), no. 2, 84--92. 49J27 (49K27 58E30)
- 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

Представлений, Динамические Системы, комбинаторные методы. 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** Nevskiĭ, 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** Pernaĭ, 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.; Dvurechenskii, 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)
- Dec 19 **MR3517072** Lee, Gue Myung; Lee, Jae Hyoung On solution set for convex optimization problem with 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 Coderivative 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)
- Jul 21 **MR3336906** García-Pacheco, F. J. Convex components and multi-slices in real topological vector spaces. *Ann. Funct. Anal.* **6** (2015), no. 3, 73--86. 46B22 (46A55 46B20)
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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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- Dec 22 **MR3261428** Gao, Ying; Yang, Xinmin; Yang, Jin; Yan, Hong Scalarizations and Lagrange multipliers for approximat solutions in the vector optimization problems with set-valued maps. [[Scalarizations and Lagrange multipliers for approximate solutions in the vector optimization problems with set-valued maps]] *J. Ind. Manag. Optim.* **11** (2015), no. 2, 673--683. 90C29 (90C48 90C59)
- Dec 03 **MR3185732** Jayaraman, Sachindranath A note on self-dual cones in Hilbert spaces. *Extracta Math.* **28** (2013), no. 2, 225--233. 47B60 (15B48 47J07)
- 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)
- Sep 18 **MR3198359** Tian, Ming; Huang, Li-Hua A general approximation method for a kind of convex optimization problems in Hilbert spaces. *J. Appl. Math.* **2014**, Art. ID 156073, 9 pp. 90C25 (90C48)
- 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)
- Jun 12 **MR3175541** Hosseini, Alireza; Hosseini, S. Mohammad; Soleimani-damaneh, M. A differential inclusion-based approach for solving nonsmooth convex optimization problems. *Optimization* **62** (2013), no. 9, 1203--1226. 90C25 (34A60 49J52)
- May 08 **MR3138369** Ball, Joseph A.; Guerra Huamán, Moisés D. Convexity analysis and the matrix-valued Schur class over finitely connected planar domains. *J. Operator Theory* **70** (2013), no. 2, 531--571. 46A55 (47A48)
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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)
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- May 22 **MR2858309** Chuong, Thai Doan; Mordukhovich, B. S.; Yao, Jen-Chih Hybrid approximate proximal algorithms for efficient solutions in vector optimization. *J. Nonlinear Convex Anal.* **12** (2011), no. 2, 257--286. 90C29 (47J25 49J40 49M37 90C48)
- 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)
- Jan 09 **MR2814377** Simon, Barry Convexity. An analytic viewpoint. Cambridge Tracts in Mathematics, 187. Cambridge University Press, Cambridge, 2011. x+345 pp. ISBN: 978-1-107-00731-4 46-02 (46A55 46E30 52A01 52A07)

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- Sep 22 **MR2777958** Gupta, S. K.; Kailey, N.; Sharma, M. K. Multiobjective second-order nondifferentiable symmetric duality involving (F, α, ρ, d) -convex functions. *J. Appl. Math. Inform.* **28** (2010), no. 5-6, 1395--1408. 90C29 (90C46)
- May 10 **MR2650832** Németh, S. Z. Isotone retraction cones in Hilbert spaces. *Nonlinear Anal.* **73** (2010), no. 2, 495--499. 46C99 (46A40 46B42 47H07 47N10)

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- Sep 07 **MR2588090** Orlov, I. V.; Stonyakin, F. S. Compact subdifferentials: the finite increment formula and related results. (Russian) ; translated from *Sovrem. Mat. Fundam. Napravl.* **34** (2009), 121--138 *J. Math. Sci. (N.Y.)* **170** (2010), no. 2, 251--269 49J52 (26A24 49J53)
- Mar 24 **MR2530076** Lael, Fatemeh; Nourouzi, Kourosh Compact operators defined on 2-normed and 2-probabilistic normed spaces. *Math. Probl. Eng.* **2009**, Art. ID 950234, 17 pp. 47S50 (46S50 47B07)

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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** Boţ, 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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- Jul 17 **MR2383785** Bukhtoyarov, S. E. On the strong stability of a vector combinatorial problem with a majority principle of optimization. (Russian) *Vestn. Beloruss. Gos. Univ. Ser. 1 Fiz. Mat. Inform.* **2007**, no. 1, 130--134, 140. 90C29 (90C27)
- Apr 29 **MR2352413** Kanoveĭ, V. G.; Lyubetskii, V. A. Problems of set-theoretic nonstandard analysis. (Russian) ; translated from *Uspekhi Mat. Nauk* **62** (2007), no. 1(373), 51--122 *Russian Math. Surveys* **62** (2007), no. 1, 45--111 03H05 (03C90 46S20 54J05)

- Mar 07 **MR2335568** Gabidullina, Z. R. A theorem on the separability of a convex polyhedron from zero of the space, and its applications to optimization. (Russian) ; *translated from Izv. Vyssh. Uchebn. Zaved. Mat.* **2006**, , no. 12, 21--26 *Russian Math. (Iz. VUZ)* **50** (2006), no. 12, 18--23 (2007) 90C05 (52A20 90C25)

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- Sep 29 **MR2233999** Guerraggio, Angelo; Luc, Dinh The Properly maximal points in product spaces. *Math. Oper. Res.* **31** (2006), no. 2, 305--315. 90C29 (52A41)
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- Jul 29 **MR2131742** Zykina, A. V. Generalized solution for an interactive procedure. (Russian) ; *translated from Kibernet. Sistem. Anal.* **40** (2004), no. 2, 153--161, 191 *Cybernet. Systems Anal.* **40** (2004), no. 2, 277--283 90C29 (90C31)
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- Mar 15 **MR2098079** Fujishige, Satoru Dual greedy polyhedra choice functions, and abstract convex geometries. *Discrete Optim.* **1** (2004), no. 1, 41--49. 90C57 (52A40 90C05)
- Feb 07 **MR2082826** Basaeva, E. K. Necessary conditions for the extremum in vector quasi-differentiable programs. (Russian) *Vladikavkaz. Mat. Zh.* **6** (2004), no. 1, 13--25. 90C29 (49J52 90C46)
- Jan 03 **MR2082832** Kusraev, A. G.; Tabuev, S. N. On bilinear operators that preserve disjunction. (Russian) *Vladikavkaz. Mat. Zh.* **6** (2004), no. 1, 58--70. 47B65 (46B42)

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- Sep 02 **MR2048290** Basaeva, E. K.; Kusraev, A. G. On the quasi-differential of a composition. (Russian) *Vladikavkaz. Mat. Zh.* **5** (2003), no. 4, 10--25. 49J52 (46A19 46A40 46G05 90C48)
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