Aram Arutyunov

List of Publications by Year
in descending order

197	2,063	257357	360920
papers	citations	24 h-index	35 g-index

201	201	201	244
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On implicit function theorem for locally Lipschitz equations. Mathematical Programming, 2023, 198, 1107-1120.	1.6	1
2	Global and semilocal theorems on implicit and inverse functions in Banach spaces. Sbornik Mathematics, 2022, 213, 1-41.	0.2	5
3	Kantorovichâ€™s Fixed Point Theorem and Coincidence Point Theorems for Mappings in Vector Metric Spaces. Set-Valued and Variational Analysis, 2022, 30, 397-423.	0.5	2
4	Variational Principles and Mean Value Estimates. Journal of Optimization Theory and Applications, 2022, 193, 21-41.	0.8	1
5	Maximum Principle and Second-Order Optimality Conditions in Control Problems with Mixed Constraints. Axioms, 2022, 11, 40.	0.9	1
6	Controllability for Problems with Mixed Constraints. Differential Equations, 2022, 58, 256-263.	0.1	0
7	On Global Solvability of Nonlinear Equations with Parameters. Doklady Mathematics, 2021, 103, 57-60.	0.1	1
8	Stable Solvability of Nonlinear Equations under Completely Continuous Perturbations. Proceedings of the Steklov Institute of Mathematics, 2021, 312, 1-15.	0.1	2
9	Existence of Real Solutions of Nonlinear Equations without A Priori Normality Assumptions. Mathematical Notes, 2021, 109, 3-14.	0.1	8
10	Square-Root Metric Regularity and Related Stability Theorems for Smooth Mappings. SIAM Journal on Optimization, 2021, 31, 1380-1409.	1.2	2
11	On The Existence of Minima of Differentiable Functions in Normed Spaces. , 2021, , .		0
12	Covering Mappings Acting into Normed Spaces and Coincidence Points. Proceedings of the Steklov Institute of Mathematics, 2021, 315, 13-18.	0.1	2
13	Implicit Function Theorem in a Neighborhood of an Abnormal Point. Proceedings of the Steklov Institute of Mathematics, 2021, 315, 19-26.	0.1	2
14	A Survey on Regularity Conditions for State-Constrained Optimal Control Problems and the Non-degenerate Maximum Principle. Journal of Optimization Theory and Applications, 2020, 184, 697-723.	0.8	32
15	On the stability of fixed points and coincidence points of mappings in the generalized Kantorovich's theorem. Topology and Its Applications, 2020, 275, 107030.	0.2	7
16	Local Solvability of Control Systems with Implicit Dynamics. , 2020, , .		0
17	On Stability of Continuous Extensions of Mappings with Respect to Nemytskii Operator. Doklady Mathematics, 2020, 101, 182-184.	0.1	1
18	Continuous Selections of Solutions for Locally Lipschitzian Equations. Journal of Optimization Theory and Applications, 2020, 185, 679-699.	0.8	11

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19	Coincidence Points and Generalized Coincidence Points of Two Set-Valued Mappings. Proceedings of the Steklov Institute of Mathematics, 2020, 308, 35-41.	0.1	2
20	Necessary Optimality Conditions for Optimal Control Problems in the Presence of Degeneration. Differential Equations, 2020, 56, 238-250.	0.1	1
21	Covering on a Convex Set in the Absence of Robinson's Regularity. SIAM Journal on Optimization, 2020, 30, 604-629.	1.2	3
22	Nonlocal Generalized Implicit Function Theorems in Hilbert Spaces. Differential Equations, 2020, 56, 1525-1538.	0.1	3
23	Investigation of Conditions for Non-degeneracy and Normality in Control Problems with Equality and Inequality State Constraints. IFAC-PapersOnLine, 2020, 53, 6869-6874.	0.5	1
24	Second-Order Necessary Optimality Conditions for Abnormal Problems andÂTheir Applications. Lecture Notes in Control and Information Sciences - Proceedings, 2020, , 99-105.	0.1	0
25	The Structure of the Set of Local Minima of Functions in Various Spaces. Siberian Mathematical Journal, 2019, 60, 398-404.	0.2	0
26	Kantorovichâ€™s Fixed Point Theorem in Metric Spaces and Coincidence Points. Proceedings of the Steklov Institute of Mathematics, 2019, 304, 60-73.	0.1	7
27	Application of Methods of Ordinary Differential Equations to Global Inverse Function Theorems. Differential Equations, 2019, 55, 437-448.	0.1	10
28	Investigation of the sets of real solutions of non-linear equations. Izvestiya Mathematics, 2019, 83, 199-213.	0.1	2
29	Hadamardâ€™s theorem for mappings with relaxed smoothness conditions. Sbornik Mathematics, 2019, 210, 165-183.	0.2	9
30	Variational Principles in Analysis and Existence of Minimizers for Functions on Metric Spaces. SIAM Journal on Optimization, 2019, 29, 994-1016.	1.2	7
31	Generalized Weierstrass Condition in the Classical Calculus of Variations. Differential Equations, 2019, 55, 75-83.	0.1	2
32	Impulsive Control Problems with State Constraints. Lecture Notes in Control and Information Sciences, 2019, , 99-119.	0.6	0
33	Optimal Impulsive Control. Lecture Notes in Control and Information Sciences, 2019, , .	0.6	10
34	Caristi-Like Condition and the Existence of Minima of Mappings in Partially Ordered Spaces. Journal of Optimization Theory and Applications, 2019, 180, 48-61.	0.8	5
35	Theorems of the Alternative for Systems of Convex Inequalities. Set-Valued and Variational Analysis, 2019, 27, 51-70.	0.5	7
36	Caristi-like condition. Existence of solutions to equations and minima of functions in metric spaces. Fixed Point Theory, 2019, 20, 31-58.	0.3	8

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37	Impulsive Control Problems Under Borel Measurability. Lecture Notes in Control and Information Sciences, 2019, , 19-38.	0.6	0
38	Impulsive Control Problems Without the Frobenius Condition. Lecture Notes in Control and Information Sciences, 2019, , 75-97.	0.6	0
39	General Nonlinear Impulsive Control Problems. Lecture Notes in Control and Information Sciences, 2019, , 153-172.	0.6	0
40	Impulsive Control Problems Under the Frobenius Condition. Lecture Notes in Control and Information Sciences, 2019, , 39-74.	0.6	0
41	Recovering Linear Operators and Lagrange Function Minimality Condition. Siberian Mathematical Journal, 2018, 59, 11-21.	0.2	0
42	Stability of Possibly Nonisolated Solutions of Constrained Equations, with Applications to Complementarity and Equilibrium Problems. Set-Valued and Variational Analysis, 2018, 26, 327-352.	0.5	7
43	A remark on the continuity of the measure Lagrange multiplier in state constrained optimal control problems. , 2018, , .		3
44	A Short Survey on Measure-Driven Optimal Control Problems. , 2018, , .		1
45	On the cardinality of the coincidence set for mappings of metric, normed and partially ordered spaces. Sbornik Mathematics, 2018, 209, 1107-1130.	0.2	8
46	Second-Order Necessary Optimality Conditions in Optimal Impulsive Control Problems. Differential Equations, 2018, 54, 1083-1101.	0.1	2
47	$ (q_1,q_2)$-quasimetric spaces. Covering mappings and coincidence points. Izvestiya Mathematics, 2018, 82, 245-272.	0.1	19
48	Variational Principles in Nonlinear Analysis and Their Generalization. Mathematical Notes, 2018, 103, 1014-1019.	0.1	9
49	New conditions for the existence of equilibrium prices. Yugoslav Journal of Operations Research, 2018, 28, 59-77.	0.5	6
50	Topological and geometrical properties of spaces with symmetric and nonsymmetric f-quasimetrics. Topology and Its Applications, 2017, 221, 178-194.	0.2	20
51	On the existence of solutions of nonlinear equations. Doklady Mathematics, 2017, 95, 46-49.	0.1	2
52	Second-order optimality conditions for singular extremals in optimal control problems with equality endpoint constraints. Nonlinear Analysis: Theory, Methods & Applications, 2017, 157, 20-43.	0.6	2
53	Investigation of Controllability and Regularity Conditions for State Constrained Problems * *This publication was supported by the Russian Foundation for Basic Research, project no. 16-31-60005, and by the Ministry of Education and Science of the Russian Federation (Agreement number 02.a03.21.0008) Tj ETQq1 1 0.784314 rgBT / support of the Russian Science Foundation (project no. 17-11-01168). The third author also acknowledges the support. IFAC-PapersOnLine, 2017, 50, 6295-6302.	0.5	10
54	Some properties of two-dimensional surjective p-homogeneous maps. Computational Mathematics and Mathematical Physics, 2017, 57, 1081-1089.	0.2	0

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55	Coincidence points of multivalued mappings in (q1, q2)-quasimetric spaces. Doklady Mathematics, 2017, 96, 438-441.	0.1	11
56	Coincidence points of mappings in vector metric spaces with applications to differential equations and control systems. Differential Equations, 2017, 53, 1440-1448.	0.1	4
57	Covering mappings and their applications. , 2017, , .		0
58	Investigation of second-order optimality conditions for impulsive control problems under the Frobenius condition. , 2017, , .		1
59	On the Continuity of Inverse Mappings for Lipschitz Perturbations of Covering Mappings. Journal of Mathematical Sciences, 2016, 217, 731-735.	0.1	1
60	Theory of (q 1, q 2)-quasimetric spaces and coincidence points. Doklady Mathematics, 2016, 94, 434-437.	0.1	17
61	Properties of extremals in optimal control problems with state constraints. Differential Equations, 2016, 52, 1411-1422.	0.1	11
62	Second order conditions in optimal control problems with equality constraints. , 2016, , .		1
63	Investigation of regularity conditions in optimal control problems with geometric mixed constraints. Optimization, 2016, 65, 185-206.	1.0	14
64	On surjective quadratic mappings. Mathematical Notes, 2016, 99, 192-195.	0.1	3
65	Conditions for the absence of jumps of the solution to the adjoint system of the maximum principle for optimal control problems with state constraints. Proceedings of the Steklov Institute of Mathematics, 2016, 292, 27-35.	0.1	5
66	Properties of surjective real quadratic maps. Sbornik Mathematics, 2016, 207, 1187-1214.	0.2	6
67	Some Properties and Applications of the Hausdorff Distance. Journal of Optimization Theory and Applications, 2016, 171, 527-535.	0.8	5
68	Coincidence points principle for set-valued mappings in partially ordered spaces. Topology and Its Applications, 2016, 201, 330-343.	0.2	22
69	Non-degenerate necessary optimality conditions for the optimal control problem with equality-type stateÂconstraints. Journal of Global Optimization, 2016, 64, 623-647.	1.1	25
70	Convex and Set-Valued Analysis. , 2016, , .		7
71	Caristiâ€™s condition and existence of a minimum of a lower bounded function in a metric space. Applications to the theory of coincidence points. Proceedings of the Steklov Institute of Mathematics, 2015, 291, 24-37.	0.1	17
72	Uniform estimates of distances to a coincidence point set. Doklady Mathematics, 2015, 92, 397-400.	0.1	1

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73	Maximum principle in an optimal control problem with equality state constraints. Differential Equations, 2015, 51, 33-46.	0.1	4
74	Approximation to solutions of linear control systems by compactly supported solutions. Differential Equations, 2015, 51, 792-797.	0.1	1
75	Stability Theorems for Estimating the Distance to a Set of Coincidence Points. SIAM Journal on Optimization, 2015, 25, 807-828.	1.2	23
76	On estimates for solutions of systems of convex inequalities. Computational Mathematics and Mathematical Physics, 2015, 55, 1444-1450.	0.2	2
77	On the structure of the set of coincidence points. Sbornik Mathematics, 2015, 206, 370-388.	0.2	10
78	On Some Continuity Properties of the Measure Lagrange Multiplier from the Maximum Principle for State Constrained Problems. SIAM Journal on Control and Optimization, 2015, 53, 2514-2540.	1.1	28
79	State Constraints in Impulsive Control Problems: Gamkrelidze-Like Conditions of Optimality. Journal of Optimization Theory and Applications, 2015, 166, 440-459.	0.8	8
80	Continuous Dependence of Coincidence Points on a Parameter. Set-Valued and Variational Analysis, 2015, 23, 23-41.	0.5	3
81	Coincidence Points in Generalized Metric Spaces. Set-Valued and Variational Analysis, 2015, 23, 355-373.	0.5	1
82	A coincidence theorem for multivalued maps and its applications. Journal of Fixed Point Theory and Applications, 2015, 17, 331-340.	0.6	0
83	Coincidence points principle for mappings in partially ordered spaces. Topology and Its Applications, 2015, 179, 13-33.	0.2	32
84	On the solvability of implicit differential inclusions. Applicable Analysis, 2015, 94, 129-143.	0.6	12
85	An investigation of smooth maps in a neighbourhood of an abnormal point. Izvestiya Mathematics, 2014, 78, 213-250.	0.1	5
86	Perturbation of solutions of the coincidence point problem for two mappings. Doklady Mathematics, 2014, 89, 346-348.	0.1	5
87	Coincidence points of two maps. Functional Analysis and Its Applications, 2014, 48, 72-75.	0.1	10
88	The coincidence point problem for set-valued mappings and Ulam-Hyers stability. Doklady Mathematics, 2014, 89, 188-191.	0.1	14
89	Application of covering mappings to constrained dynamic systems and differential inclusions. , 2014, , .		0
90	On coincidence points of mappings in partially ordered spaces. Doklady Mathematics, 2013, 88, 710-713.	0.1	17

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91	Coincidence points of set-valued mappings in partially ordered spaces. Doklady Mathematics, 2013, 88, 727-729.	0.1	15
92	Properties of the minimum function in the quadratic problem. Mathematical Notes, 2013, 94, 32-40.	0.1	1
93	Equilibrium price as a coincidence point of two mappings. Computational Mathematics and Mathematical Physics, 2013, 53, 158-169.	0.2	13
94	Optimality conditions for 2-regular problems with nonsmooth objective functions. Nonlinear Analysis: Theory, Methods & Applications, 2013, 90, 37-45.	0.6	1
95	On second-order necessary optimality conditions in finite-dimensional abnormal optimization problems. Doklady Mathematics, 2012, 85, 328-330.	0.1	0
96	Smooth abnormal problems in extremum theory and analysis. Russian Mathematical Surveys, 2012, 67, 403-457.	0.2	30
97	Properties of the Lagrange multipliers in the Pontryagin maximum principle for optimal control problems with state constraints. Differential Equations, 2012, 48, 1586-1595.	0.1	10
98	An iterative method for finding coincidence points of two mappings. Computational Mathematics and Mathematical Physics, 2012, 52, 1483-1486.	0.2	2
99	Two problems of the theory of quadratic maps. Functional Analysis and Its Applications, 2012, 46, 225-227.	0.1	7
100	Differential properties of the minimum function for diagonalizable quadratic problems. Computational Mathematics and Mathematical Physics, 2012, 52, 1342-1350.	0.2	1
101	On the extension of classical calculus of variations and optimal control to problems with discontinuous trajectories. , 2012, , .		3
102	On two questions of optimization theory concerning quadratic mappings. Optimization Letters, 2012, 6, 1009-1015.	0.9	0
103	Covering mappings and well-posedness of nonlinear Volterra equations. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1026-1044.	0.6	33
104	Pontryaginâ€™s maximum principle for constrained impulsive control problems. Nonlinear Analysis: Theory, Methods & Applications, 2012, 75, 1045-1057.	0.6	32
105	Inverse function in the neighborhood of an abnormal point of a smooth map. Doklady Mathematics, 2012, 85, 305-308.	0.1	0
106	Regular zeros of quadratic maps and their application. Sbornik Mathematics, 2011, 202, 783-806.	0.2	18
107	On the well-posedness of differential equations unsolved for the derivative. Differential Equations, 2011, 47, 1541-1555.	0.1	23
108	On a generalization of the impulsive control concept: Controlling system jumps. Discrete and Continuous Dynamical Systems, 2011, 29, 403-415.	0.5	27

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109	R.V. Gamkrelidzeâ€™s maximum principle for optimal control problems with bounded phase coordinates and its relation to other optimality conditions. Doklady Mathematics, 2011, 83, 131-135.	0.1	3
110	Existence of local solutions in constrained dynamic systems. Applicable Analysis, 2011, 90, 889-898.	0.6	12
111	The Maximum Principle for Optimal Control Problems withÂStateÂConstraints byÂR.V.ÂGamkrelidze: Revisited. Journal of Optimization Theory and Applications, 2011, 149, 474-493.	0.8	74
112	Existence and properties of inverse mappings. Proceedings of the Steklov Institute of Mathematics, 2010, 271, 12-22.	0.1	31
113	On implicit function theorems at abnormal points. Proceedings of the Steklov Institute of Mathematics, 2010, 271, 18-27.	0.1	4
114	Pontryaginâ€™s maximum principle for optimal impulsive control problems. Doklady Mathematics, 2010, 81, 418-421.	0.1	6
115	Maximum principle in problems with mixed constraints under weak assumptions of regularity. Optimization, 2010, 59, 1067-1083.	1.0	22
116	On constrained impulsive control problems. Journal of Mathematical Sciences, 2010, 165, 654-688.	0.1	25
117	Nikolai Alekseevich Izobov (A tribute in honor of his 70th birthday). Differential Equations, 2010, 46, 1-7.	0.1	2
118	Local solvability of control systems with mixed constraints. Differential Equations, 2010, 46, 1561-1570.	0.1	14
119	Example of a linear abnormal optimal control problem. Differential Equations, 2010, 46, 1786-1788.	0.1	0
120	10.1007/s11470-008-3002-2. , 2010, 48, 346.		0
121	Necessary Optimality Conditions for Problems with Equality and Inequality Constraints: Abnormal Case. Journal of Optimization Theory and Applications, 2009, 140, 391-408.	0.8	6
122	Locally covering maps in metric spaces and coincidence points. Journal of Fixed Point Theory and Applications, 2009, 5, 105-127.	0.6	70
123	Stability of coincidence points and properties of covering mappings. Mathematical Notes, 2009, 86, 153-158.	0.1	43
124	Covering mappings and their applications to differential equations unsolved for the derivative. Differential Equations, 2009, 45, 627-649.	0.1	34
125	Lagrange principle in quadratic optimal control problems with infinite horizon. Differential Equations, 2009, 45, 1595-1601.	0.1	1
126	New bifurcation theorems via the second-order optimality conditions. Journal of Mathematical Analysis and Applications, 2009, 359, 752-764.	0.5	6

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127	Stability of coincidence points and set-valued covering maps in metric spaces. Doklady Mathematics, 2009, 80, 555-557.	0.1	3
128	Minimum of a functional in a metric space and fixed points. Computational Mathematics and Mathematical Physics, 2009, 49, 1111-1118.	0.2	1
129	Necessary optimality conditions for constrained optimization problems under relaxed constraint qualifications. Mathematical Programming, 2008, 114, 37-68.	1.6	14
130	Exact penalties for optimization problems with 2-regular equality constraints. Computational Mathematics and Mathematical Physics, 2008, 48, 346-353.	0.2	0
131	Nonnegativity of quadratic forms on intersections of quadrics and quadratic maps. Mathematical Notes, 2008, 84, 155-165.	0.1	11
132	Directional Regularity and Metric Regularity. SIAM Journal on Optimization, 2007, 18, 810-833.	1.2	31
133	Necessary conditions for an extremum in a mathematical programming problem. Proceedings of the Steklov Institute of Mathematics, 2007, 256, 2-25.	0.1	16
134	Necessary optimality conditions for abnormal problems with geometric constraints. Computational Mathematics and Mathematical Physics, 2007, 47, 349-360.	0.2	3
135	Covering mappings in metric spaces and fixed points. Doklady Mathematics, 2007, 76, 665-668.	0.1	97
136	Second-Order Necessary Optimality Conditions for Problems Without A Priori Normality Assumptions. Mathematics of Operations Research, 2006, 31, 1-12.	0.8	16
137	Ivan Vasilâ€™evich Gaishun (A tribute in honor of his sixtieth birthday). Differential Equations, 2006, 42, 1365-1373.	0.1	0
138	Controllability of nonlinear systems with constrained controls. Differential Equations, 2006, 42, 1515-1523.	0.1	2
139	Necessary conditions for an extremum in 2-regular problems. Doklady Mathematics, 2006, 73, 340-343.	0.1	3
140	Directional metric regularity of mappings and stability theorems. Doklady Mathematics, 2006, 74, 473-476.	0.1	0
141	Implicit function theorem without a priori assumptions about normality. Computational Mathematics and Mathematical Physics, 2006, 46, 195-205.	0.2	20
142	On the consistency of linear and quadratic systems. Computational Mathematics and Mathematical Physics, 2006, 46, 537-540.	0.2	0
143	Necessary optimality conditions in an abnormal optimization problem with equality constraints. Computational Mathematics and Mathematical Physics, 2006, 46, 1293-1298.	0.2	12
144	Directional Stability Theorem and Directional Metric Regularity. Mathematics of Operations Research, 2006, 31, 526-543.	0.8	30

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145	SECOND-ORDER NECESSARY CONDITIONS FOR OPTIMAL IMPULSIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 483-488.	0.4	0
146	Necessary Conditions for Impulsive Nonlinear Optimal Control Problems without a priori Normality Assumptions. Journal of Optimization Theory and Applications, 2005, 124, 55-77.	0.8	30
147	Necessary Conditions for a Weak Minimum in an Optimal Control Problem with Mixed Constraints. Differential Equations, 2005, 41, 1532-1543.	0.1	15
148	Covering of nonlinear maps on a cone in neighborhoods of irregular points. Mathematical Notes, 2005, 77, 447-460.	0.1	11
149	Implicit-Function Theorem on the Cone in a Neighborhood of an Irregular Point. Mathematical Notes, 2005, 78, 573-576.	0.1	2
150	On real quadratic forms annihilating an intersection of quadrics. Russian Mathematical Surveys, 2005, 60, 157-158.	0.2	3
151	Inverse function theorem and conditions of extremum for abnormal problems with non-closed range. Sbornik Mathematics, 2005, 196, 1251-1269.	0.2	10
152	A Nondegenerate Maximum Principle for the Impulse Control Problem with State Constraints. SIAM Journal on Control and Optimization, 2005, 43, 1812-1843.	1.1	47
153	Sensitivity Analysis for Cone-Constrained Optimization Problems Under the Relaxed Constraint Qualifications. Mathematics of Operations Research, 2005, 30, 333-353.	0.8	12
154	A Simple â€˜Finite Approximationsâ€™ Proof of the Pontryagin Maximum Principle under Reduced Differentiability Hypotheses. Set-Valued and Variational Analysis, 2004, 12, 5-24.	0.5	29
155	Abnormal equality-constrained optimization problems: sensitivity theory. Mathematical Programming, 2004, 100, 485.	1.6	8
156	Topological properties of attainability sets of linear systems. Differential Equations, 2004, 40, 1645-1648.	0.1	2
157	Topological properties of attainability sets of linear systems. Differential Equations, 2004, 40, 1645-1648.	0.1	1
158	Tangent vectors to a zero set at abnormal points. Journal of Mathematical Analysis and Applications, 2004, 289, 66-76.	0.5	6
159	Fractal Analysis of Digital Systems: The Structure and Properties of the Scale Factor. Russian Microelectronics, 2003, 32, 178-181.	0.1	0
160	A Finite-Dimensional Approximation Method in Optimal Control Theory. Differential Equations, 2003, 39, 1519-1528.	0.1	0
161	The Pontryagin Maximum Principle and Sufficient Optimality Conditions for Nonlinear Problems. Differential Equations, 2003, 39, 1671-1679.	0.1	7
162	Second Order Necessary Conditions for Optimal Impulsive Control Problems. Journal of Dynamical and Control Systems, 2003, 9, 131-153.	0.4	23

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163	Positive Definiteness of Forms: Numerical Identification. SIAM Journal on Control and Optimization, 2002, 41, 1567-1585.	1.1	0
164	Positive Quadratic Forms on Intersections of Quadrics. Mathematical Notes, 2002, 71, 25-33.	0.1	3
165	A Problem of Optimal Distribution of Resources over a Set of Independent Operations. Automation and Remote Control, 2002, 63, 792-802.	0.4	0
166	2-Normal Processes in Controlled Dynamical Systems. Differential Equations, 2002, 38, 1081-1094.	0.1	5
167	On Necessary Second-Order Conditions in Optimal Control Problems. Differential Equations, 2002, 38, 1531-1540.	0.1	11
168	Vera Nikolaevna Maslennikova (obituary). Russian Mathematical Surveys, 2001, 56, 739-743.	0.2	0
169	Bifurcation Theorems via Second-Order Optimality Conditions. Journal of Mathematical Analysis and Applications, 2001, 262, 564-576.	0.5	3
170	Milyutin's Theorem in Linear-Quadratic Optimal Control Problems. Differential Equations, 2001, 37, 1627-1630.	0.1	2
171	On Controllability of Trajectories in State-Constrained Optimal Control Problems. Journal of Mathematical Sciences, 2001, 103, 664-669.	0.1	1
172	Implicit function theorem as a realization of the Lagrange principle. Abnormal points. Sbornik Mathematics, 2000, 191, 1-24.	0.2	13
173	Optimality Conditions: Abnormal and Degenerate Problems. , 2000, , .		140
174	Pontryagin's maximum principle in optimal control theory. Journal of Mathematical Sciences, 1999, 94, 1311-1365.	0.1	2
175	Necessary Optimality Conditions for Optimal Control Problems with Intermediate Constraints. Journal of Dynamical and Control Systems, 1998, 4, 49-58.	0.4	7
176	Second-order conditions in extremal problems. The abnormal points. Transactions of the American Mathematical Society, 1998, 350, 4341-4365.	0.5	39
177	Investigation of the Degeneracy Phenomenon of the Maximum Principle for Optimal Control Problems with State Constraints. SIAM Journal on Control and Optimization, 1997, 35, 930-952.	1.1	92
178	One remark to Ekeland's variational principle. Computers and Mathematics With Applications, 1997, 34, 267-271.	1.4	3
179	Abnormal extremal problems and optimality conditions. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2461-2467.	0.6	0
180	Optimality conditions in abnormal extremal problems. Systems and Control Letters, 1996, 27, 279-284.	1.3	6

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181	Second-order conditions in extremal problems with finite-dimensional range. 2-normal maps. Izvestiya Mathematics, 1996, 60, 39-65.	0.1	3
182	State constraints in optimal control. The degeneracy phenomenon. Systems and Control Letters, 1995, 26, 267-273.	1.3	26
183	ON THE THEORY OF DEGENERATE QUADRATIC FORMS IN THE CLASSICAL CALCULUS OF VARIATIONS. Izvestiya Mathematics, 1995, 45, 433-476.	0.1	3
184	FIRST-ORDER NECESSARY CONDITIONS IN THE PROBLEM OF OPTIMAL CONTROL OF A DIFFERENTIAL INCLUSION WITH PHASE CONSTRAINTS. Sbornik Mathematics, 1994, 79, 117-139.	0.2	11
185	Nonnegativity of degenerated quadratic forms of the calculus of variations. Journal of Mathematical Sciences, 1994, 68, 125-163.	0.1	0
186	THE LEVEL SET OF A SMOOTH MAPPING IN A NEIGHBORHOOD OF A SINGULAR POINT, AND ZEROS OF A QUADRATIC MAPPING. Sbornik: Mathematics, 1992, 73, 455-466.	0.2	21
187	Maximum principle and second-order conditions for minimax problems of optimal control. Journal of Optimization Theory and Applications, 1992, 75, 521-533.	0.8	6
188	Optimality conditions of higher order for abnormal minimization problems. Siberian Mathematical Journal, 1992, 33, 557-565.	0.2	2
189	Perturbations of extremal problems with constraints and necessary optimality conditions. Journal of Soviet Mathematics, 1991, 54, 1342-1400.	0.0	43
190	Properties of quadratic maps in a Banach space. Mathematical Notes, 1991, 50, 993-999.	0.1	5
191	Necessary conditions for an extremum in an abnormal problem with equality constraints. Russian Mathematical Surveys, 1990, 45, 223-224.	0.2	2
192	The fixed sign property of quadratic forms on a cone. Russian Mathematical Surveys, 1984, 39, 139-140.	0.2	0
193	ON THE SYSTEM OF JACOBI EQUATIONS IN A TIME-OPTIMAL PROBLEM. Mathematics of the USSR Izvestija, 1983, 21, 375-397.	0.2	0
194	First- and second-order conditions in the problem of optimal high-speed. Russian Mathematical Surveys, 1981, 36, 167-168.	0.2	0
195	Convex properties of the legendre transform. Mathematical Notes, 1980, 28, 591-595.	0.1	3
196	First and second order necessary conditions of optimality for impulsive control problems. , 0, , .		6
197	Nondegenerate Necessary Conditions of Optimality for Problems Without Normality Assumptions. , 0, , .		0