

Dmitry Karamzin

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Maximum Principle for Optimal Control Problems with State Constraints by R.V. Gamkrelidze: Revisited. Journal of Optimization Theory and Applications, 2011, 149, 474-493.	1.5	74
2	Necessary conditions of the minimum in an impulse optimal control problem. Journal of Mathematical Sciences, 2006, 139, 7087-7150.	0.4	33
3	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.	1.5	32
4	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.	2.1	28
5	On a generalization of the impulsive control concept: Controlling system jumps. Discrete and Continuous Dynamical Systems, 2011, 29, 403-415.	0.9	27
6	On constrained impulsive control problems. Journal of Mathematical Sciences, 2010, 165, 654-688.	0.4	25
7	Non-degenerate necessary optimality conditions for the optimal control problem with equality-type state constraints. Journal of Global Optimization, 2016, 64, 623-647.	1.8	25
8	On a Few Questions Regarding the Study of State-Constrained Problems in Optimal Control. Journal of Optimization Theory and Applications, 2019, 180, 235-255.	1.5	25
9	Maximum principle in problems with mixed constraints under weak assumptions of regularity. Optimization, 2010, 59, 1067-1083.	1.7	22
10	An Indirect Method for Regular State-Constrained Optimal Control Problems in Flow Fields. IEEE Transactions on Automatic Control, 2021, 66, 787-793.	5.7	20
11	On some extension of optimal control theory. European Journal of Control, 2014, 20, 284-291.	2.6	19
12	Regular zeros of quadratic maps and their application. Sbornik Mathematics, 2011, 202, 783-806.	0.6	18
13	Necessary Conditions for a Weak Minimum in an Optimal Control Problem with Mixed Constraints. Differential Equations, 2005, 41, 1532-1543.	0.7	15
14	Necessary optimality conditions in an abnormal optimization problem with equality constraints. Computational Mathematics and Mathematical Physics, 2006, 46, 1293-1298.	0.8	12
15	Properties of extremals in optimal control problems with state constraints. Differential Equations, 2016, 52, 1411-1422.	0.7	11
16	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)	0.9	10
17	support of the Russian Science Foundation (project no. 17-11-01168). The third author also acknowledges the support. IFAC-PapersOnLine, 2017, 50, 6295-6302. An indirect numerical method for a time-optimal state-constrained control problem in a steady two-dimensional fluid flow. , 2018, , .		10
18	Optimal Impulsive Control. Lecture Notes in Control and Information Sciences, 2019, , .	1.0	10

#	ARTICLE	IF	CITATIONS
19	State Constraints in Impulsive Control Problems: Gamkrelidze-Like Conditions of Optimality. Journal of Optimization Theory and Applications, 2015, 166, 440-459.	1.5	8
20	Necessary Optimality Conditions for Problems with Equality and Inequality Constraints: Abnormal Case. Journal of Optimization Theory and Applications, 2009, 140, 391-408.	1.5	6
21	Pontryagin's maximum principle for optimal impulsive control problems. Doklady Mathematics, 2010, 81, 418-421.	0.6	6
22	On the study of conditions for the continuity of the Lagrange multiplier measure in problems with state constraints. Differential Equations, 2015, 51, 399-405.	0.7	6
23	Minimax optimal control problem with state constraints. European Journal of Control, 2016, 32, 24-31.	2.6	6
24	Path-constrained trajectory time-optimization in a three-dimensional steady flow field. , 2019, , .		6
25	An investigation of smooth maps in a neighbourhood of an abnormal point. Izvestiya Mathematics, 2014, 78, 213-250.	0.6	5
26	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.	0.3	5
27	A Regularization Approach to Analyze the Time-Optimal Motion of a Mobile Robot under State Constraints using Pontryagin's Maximum Principle. Procedia Computer Science, 2021, 186, 11-20.	2.0	5
28	On some properties of the shortest curve in a compound domain. Differential Equations, 2015, 51, 1626-1636.	0.7	4
29	Maximum principle in an optimal control problem with equality state constraints. Differential Equations, 2015, 51, 33-46.	0.7	4
30	Necessary optimality conditions for abnormal problems with geometric constraints. Computational Mathematics and Mathematical Physics, 2007, 47, 349-360.	0.8	3
31	R.V. Gamkrelidze's maximum principle for optimal control problems with bounded phase coordinates and its relation to other optimality conditions. Doklady Mathematics, 2011, 83, 131-135.	0.6	3
32	On the extension of classical calculus of variations and optimal control to problems with discontinuous trajectories. , 2012, , .		3
33	A remark on the continuity of the measure Lagrange multiplier in state constrained optimal control problems. , 2018, , .		3
34	Principle of maximum in the problem of control under limited phase coordinates. Automation and Remote Control, 2007, 68, 233-244.	0.8	2
35	The dines theorem and some other properties of quadratic mappings. Computational Mathematics and Mathematical Physics, 2015, 55, 1633-1641.	0.8	2
36	Second-Order Necessary Optimality Conditions in Optimal Impulsive Control Problems. Differential Equations, 2018, 54, 1083-1101.	0.7	2

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37	Square-Root Metric Regularity and Related Stability Theorems for Smooth Mappings. SIAM Journal on Optimization, 2021, 31, 1380-1409.	2.0	2
38	Necessary extremum conditions in the optimal control problem with state constraints. Computational Mathematics and Mathematical Physics, 2007, 47, 1073-1100.	0.8	1
39	Investigation of second-order optimality conditions for impulsive control problems under the Frobenius condition. , 2017, , .		1
40	A Short Survey on Measure-Driven Optimal Control Problems. , 2018, , .		1
41	Investigation of Conditions for Non-degeneracy and Normality in Control Problems with Equality and Inequality State Constraints. IFAC-PapersOnLine, 2020, 53, 6869-6874.	0.9	1
42	Maximum Principle and Second-Order Optimality Conditions in Control Problems with Mixed Constraints. Axioms, 2022, 11, 40.	1.9	1
43	A Problem of Optimal Distribution of Resources over a Set of Independent Operations. Automation and Remote Control, 2002, 63, 792-802.	0.8	0
44	On necessary extremum conditions for finite-dimensional problems with inequality constraints. Computational Mathematics and Mathematical Physics, 2006, 46, 1860-1871.	0.8	0
45	On second-order necessary optimality conditions in finite-dimensional abnormal optimization problems. Doklady Mathematics, 2012, 85, 328-330.	0.6	0
46	Inverse function in the neighborhood of an abnormal point of a smooth map. Doklady Mathematics, 2012, 85, 305-308.	0.6	0
47	On properness of impulsive extension. , 2014, , .		0
48	Some properties of two-dimensional surjective p -homogeneous maps. Computational Mathematics and Mathematical Physics, 2017, 57, 1081-1089.	0.8	0
49	Comments on Paper "On the Relation Between Two Approaches to Necessary Optimality Conditions in Problems with State Constraints" Journal of Optimization Theory and Applications, 2018, 179, 358-362.	1.5	0
50	Impulsive Control Problems with State Constraints. Lecture Notes in Control and Information Sciences, 2019, , 99-119.	1.0	0
51	Impulsive Control Problems Without the Frobenius Condition. Lecture Notes in Control and Information Sciences, 2019, , 75-97.	1.0	0
52	Impulsive Control Problems Under the Frobenius Condition. Lecture Notes in Control and Information Sciences, 2019, , 39-74.	1.0	0
53	Investigation of Quasi-Optimal Motion of a Mobile Robot: the Maximum Principle Based Approach*. , 2020, , .		0