Boris Miller

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6849753/publications.pdf

Version: 2024-02-01

62	562	758635	794141
papers	citations	12	19
		h-index	g-index

62	62	62	302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	UAV Control on the Basis of 3D Landmark Bearing-Only Observations. Sensors, 2015, 15, 29802-29820.	2.1	42
2	Singular Stochastic Control Problems. SIAM Journal on Control and Optimization, 2004, 43, 708-730.	1.1	34
3	Flow Control as a Stochastic Optimal Control Problem with Incomplete Information. Problems of Information Transmission, 2005, 41, 150-170.	0.3	29
4	Discontinuous solutions in the optimal control problems and their representation by singular space-time transformations. Automation and Remote Control, 2013, 74, 1969-2006.	0.4	29
5	Maximum Principle for Singular Stochastic Control Problems. SIAM Journal on Control and Optimization, 2006, 45, 668-698.	1.1	28
6	Tracking of the UAV trajectory on the basis of bearing-only observations. , 2014, , .		23
7	UAV Landing Based on the Optical Flow Videonavigation. Sensors, 2019, 19, 1351.	2.1	23
8	3D path planning in a threat environment. , 2011, , .		22
9	Underwater Target Tracking Using Bearing-Only Measurements. Journal of Communications Technology and Electronics, 2018, 63, 643-649.	0.2	22
10	Optimal control problems in hybrid systems with active singularities. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 999-1017.	0.6	18
11	Towards the optimal control of Markov chains with constraints. Automatica, 2010, 46, 1495-1502.	3.0	18
12	Image motion compensation at charge-coupled device photographing in delay-integration mode. Automation and Remote Control, 2007, 68, 564-571.	0.4	16
13	Path planning for unmanned aerial vehicle under complicated conditions and hazards. Journal of Computer and Systems Sciences International, 2012, 51, 328-338.	0.2	16
14	New Approaches to the Integration of Navigation Systems for Autonomous Unmanned Vehicles (UAV). Sensors, 2018, 18, 3010.	2.1	13
15	Generalized solutions in systems with active unilateral constraints. Nonlinear Analysis: Hybrid Systems, 2007, 1, 510-526.	2.1	12
16	On AUV Control with the Aid of Position Estimation Algorithms Based on Acoustic Seabed Sensing and DOA Measurements. Sensors, 2019, 19, 5520.	2.1	12
17	Regularization of a generalized Kalman filter. Mathematics and Computers in Simulation, 1995, 39, 87-108.	2.4	11
18	Optimal management of a two dam system via stochastic control: Parallel computing approach. , 2011, , .		11

#	Article	IF	Citations
19	Passive Underwater Target Tracking: Conditionally Minimax Nonlinear Filtering with Bearing-Doppler Observations. Sensors, 2020, 20, 2257.	2.1	11
20	Dynamical systems with controlled singularities: physically based representation and control-oriented modeling. , 0, , .		10
21	Navigation of Underwater Drones and Integration of Acoustic Sensing with Onboard Inertial Navigation System. Drones, 2021, 5, 83.	2.7	10
22	Control of connected Markov chains. Application to congestion avoidance in the Internet. , 2011, , .		9
23	UAV navigation based on videosequences captured by the onboard video camera. Automation and Remote Control, 2017, 78, 2211-2221.	0.4	9
24	Optimal Channel Choice for Lossy Data Flow Transmission. Automation and Remote Control, 2018, 79, 66-77.	0.4	9
25	Optimal control problem regularization for the Markov process with finite number of states and constraints. Automation and Remote Control, 2016, 77, 1589-1611.	0.4	8
26	Optimal control of a large dam using time-inhomogeneous Markov chains with an application to flood control. IFAC-PapersOnLine, 2017, 50, 3499-3504.	0.5	8
27	Optimal control of Markov chains with constraints. , 2009, , .		7
28	Optical Flow as a navigation means for UAV. , 2018, , .		7
29	A numerical approach to joint continuous and impulsive control of Markov chains. IFAC-PapersOnLine, 2018, 51, 462-467.	0.5	7
30	Visual navigation of the UAVs on the basis of 3D natural landmarks. Proceedings of SPIE, 2015, , .	0.8	6
31	Stochastic control of light UAV at landing with the aid of bearing-only observations. Proceedings of SPIE, 2015, , .	0.8	6
32	Observation control for discrete-continuous stochastic systems. IEEE Transactions on Automatic Control, 2000, 45, 993-998.	3.6	5
33	Input/state/output modeling and control of dynamical systems with active singularities: Single- and multi-impact sequences. , 2008, , .		5
34	Impulsive control with impulsive actions of two types. Automation and Remote Control, 2009, 70, 1795-1813.	0.4	5
35	Filtering of the Markov jump process given the observations of multivariate point process. Automation and Remote Control, 2015, 76, 219-240.	0.4	5
36	Pseudomeasurement Kalman filter in underwater target motion analysis & Integration of bearing-only and active-range measurement * *A.A. Kharkevich Institute for Information Transmission Problems, Russian Academy of Sciences, IITP RAS, Moscow.. IFAC-PapersOnLine, 2017, 50, 3817-3822.	0.5	5

#	Article	IF	Citations
37	Congestion avoidance with the aid of stochastic control. , 2010, , .		4
38	The mirror descent control algorithm for weakly regular homogeneous finite Markov chains with unknown mean losses. , 2011, , .		4
39	Sensitivity analysis of gas supply optimization models. Annals of Operations Research, 2015, 226, 565-588.	2.6	4
40	Optimization of the Data Transmission Flow from Moving Object to Nonhomogeneous Network of Base Stations 1 1A.A. Kharkevich Institute for Information Transmission Problems, Russian Academy of Sciences (IITP RAS), Moscow, Russia. Institute of Informatics Problems, Federal Research Center â€œComputer Science and Controlâ€•of Russian Academy of Sciences (FRC CSC RAS), Moscow, Russia.. IFAC-PapersOnLine, 2017, 50, 6160-6165.	0.5	4
41	AUV position estimation via acoustic seabed profile measurements. , 2018, , .		4
42	Optimal control of time-inhomogeneous Markov chains with application to dam management. , 2013, , .		3
43	UAV control on the basis of bearing-only observations. , 2014, , .		3
44	Optimisation of gas flows in South Eastern Australia via controllable Markov chains. , 2016, , .		3
45	AUV navigation with seabed acoustic sensing*. , 2018, , .		3
46	On AUV Navigation Based on Acoustic Sensing of the Seabed Profile. Journal of Communications Technology and Electronics, 2018, 63, 1502-1505.	0.2	3
47	Controllable Systems with Impacts. Journal of Mathematical Sciences, 2014, 199, 571-582.	0.1	2
48	Estimation of velocities via optical flow. Proceedings of SPIE, 2017, , .	0.8	2
49	Joint Continuous and Impulsive Control of Markov Chains. , 2018, , .		2
50	Robust Data Fusion of UAV Navigation Measurements with Application to the Landing System. Remote Sensing, 2020, 12, 3849.	1.8	2
51	Optimization of generalized solutions of nonlinear hybrid (discrete-continuous) systems. Lecture Notes in Computer Science, 1998, , 334-345.	1.0	2
52	Advanced guidance law design based on the information-set concept. , 0, , .		2
53	Kalman filter for controlled hybrid systems. Systems and Control Letters, 2003, 50, 39-50.	1.3	1
54	Representation of motion of controlled dynamic systems with unilateiral constrafints. , 2006, , .		1

#	Article	IF	Citations
55	Application of stochastic control to analysis and optimization of TCP. , 2013, , .		1
56	Towards Tensor Representation of Controlled Coupled Markov Chains. Mathematics, 2020, 8, 1712.	1.1	1
57	SINGULAR STOCHASTIC MAXIMUM PRINCIPLE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 29-34.	0.4	0
58	On effectiveness of the Mirror Decent Algorithm for a stochastic multi-armed bandit governed by a stationary finite Markov chain. , 2013, , .		0
59	Robust Mirror Decent Algorithm for a Multi-Armed Bandit Governed by a Stationary Finite Markov Chain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 905-909.	0.4	0
60	Determination of the AUV Velocity with the Aid of Seabed Acoustic Sensing. Journal of Communications Technology and Electronics, 2018, 63, 650-654.	0.2	0
61	Maximum principle in nonlinear optimal stochastic singular control problems. , 2007, , .		0
62	Mirror decent algorithm for a multi-armed bandit governed by a stationary finite state Markov chain. , 2013, , .		0