Boris Miller

List of Publications by Year
in descending order

62 papers	562 citations	758635 12 h-index	794141 19 g-index
62 all docs	62 docs citations	62 times ranked	302 citing authors

#	Article	IF	Citations
1	Navigation of Underwater Drones and Integration of Acoustic Sensing with Onboard Inertial Navigation System. Drones, 2021, 5, 83.	2.7	10
2	Robust Data Fusion of UAV Navigation Measurements with Application to the Landing System. Remote Sensing, 2020, 12, 3849.	1.8	2
3	Towards Tensor Representation of Controlled Coupled Markov Chains. Mathematics, 2020, 8, 1712.	1.1	1
4	Passive Underwater Target Tracking: Conditionally Minimax Nonlinear Filtering with Bearing-Doppler Observations. Sensors, 2020, 20, 2257.	2.1	11
5	UAV Landing Based on the Optical Flow Videonavigation. Sensors, 2019, 19, 1351.	2.1	23
6	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
7	Optimal Channel Choice for Lossy Data Flow Transmission. Automation and Remote Control, 2018, 79, 66-77.	0.4	9
8	Optical Flow as a navigation means for UAV. , 2018, , .		7
9	A numerical approach to joint continuous and impulsive control of Markov chains. IFAC-PapersOnLine, 2018, 51, 462-467.	0.5	7
10	AUV position estimation via acoustic seabed profile measurements. , 2018, , .		4
11	Joint Continuous and Impulsive Control of Markov Chains. , 2018, , .		2
12	AUV navigation with seabed acoustic sensing*. , 2018, , .		3
13	On AUV Navigation Based on Acoustic Sensing of the Seabed Profile. Journal of Communications Technology and Electronics, 2018, 63, 1502-1505.	0.2	3
14	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
15	New Approaches to the Integration of Navigation Systems for Autonomous Unmanned Vehicles (UAV). Sensors, 2018, 18, 3010.	2.1	13
16	Underwater Target Tracking Using Bearing-Only Measurements. Journal of Communications Technology and Electronics, 2018, 63, 643-649.	0.2	22
17	Estimation of velocities via optical flow. Proceedings of SPIE, 2017, , .	0.8	2
18	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

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19	UAV navigation based on videosequences captured by the onboard video camera. Automation and Remote Control, 2017, 78, 2211-2221.	0.4	9
20	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
21	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
22	Optimisation of gas flows in South Eastern Australia via controllable Markov chains. , 2016, , .		3
23	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
24	UAV Control on the Basis of 3D Landmark Bearing-Only Observations. Sensors, 2015, 15, 29802-29820.	2.1	42
25	Visual navigation of the UAVs on the basis of 3D natural landmarks. Proceedings of SPIE, 2015, , .	0.8	6
26	Stochastic control of light UAV at landing with the aid of bearing-only observations. Proceedings of SPIE, 2015, , .	0.8	6
27	Sensitivity analysis of gas supply optimization models. Annals of Operations Research, 2015, 226, 565-588.	2.6	4
28	Filtering of the Markov jump process given the observations of multivariate point process. Automation and Remote Control, 2015, 76, 219-240.	0.4	5
29	Tracking of the UAV trajectory on the basis of bearing-only observations. , 2014, , .		23
30	Controllable Systems with Impacts. Journal of Mathematical Sciences, 2014, 199, 571-582.	0.1	2
31	UAV control on the basis of bearing-only observations. , 2014, , .		3
32	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
33	Optimal control of time-inhomogeneous Markov chains with application to dam management. , 2013, , .		3
34	On effectiveness of the Mirror Decent Algorithm for a stochastic multi-armed bandit governed by a stationary finite Markov chain. , 2013, , .		0
35	Application of stochastic control to analysis and optimization of TCP. , 2013, , .		1
36	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

#	ARTICLE	IF	CITATIONS
37	Mirror decent algorithm for a multi-armed bandit governed by a stationary finite state Markov chain. , 2013, , .		0
38	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
39	The mirror descent control algorithm for weakly regular homogeneous finite Markov chains with unknown mean losses. , 2011, , .		4
40	Optimal management of a two dam system via stochastic control: Parallel computing approach. , 2011, , .		11
41	Control of connected Markov chains. Application to congestion avoidance in the Internet. , 2011, , .		9
42	3D path planning in a threat environment. , 2011, , .		22
43	Towards the optimal control of Markov chains with constraints. Automatica, 2010, 46, 1495-1502.	3.0	18
44	Congestion avoidance with the aid of stochastic control. , 2010, , .		4
45	Impulsive control with impulsive actions of two types. Automation and Remote Control, 2009, 70, 1795-1813.	0.4	5
46	Optimal control of Markov chains with constraints. , 2009, , .		7
47	Input/state/output modeling and control of dynamical systems with active singularities: Single- and multi-impact sequences. , 2008, , .		5
48	Generalized solutions in systems with active unilateral constraints. Nonlinear Analysis: Hybrid Systems, 2007, 1, 510-526.	2.1	12
49	Image motion compensation at charge-coupled device photographing in delay-integration mode. Automation and Remote Control, 2007, 68, 564-571.	0.4	16
50	Maximum principle in nonlinear optimal stochastic singular control problems. , 2007, , .		0
51	Maximum Principle for Singular Stochastic Control Problems. SIAM Journal on Control and Optimization, 2006, 45, 668-698.	1.1	28
52	Optimal control problems in hybrid systems with active singularities. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 999-1017.	0.6	18
53	Representation of motion of controlled dynamic systems with unilateiral constrafints. , 2006, , .		1
54	SINGULAR STOCHASTIC MAXIMUM PRINCIPLE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 29-34.	0.4	0

#	Article	IF	Citations
55	Flow Control as a Stochastic Optimal Control Problem with Incomplete Information. Problems of Information Transmission, 2005, 41, 150-170.	0.3	29
56	Singular Stochastic Control Problems. SIAM Journal on Control and Optimization, 2004, 43, 708-730.	1.1	34
57	Kalman filter for controlled hybrid systems. Systems and Control Letters, 2003, 50, 39-50.	1.3	1
58	Observation control for discrete-continuous stochastic systems. IEEE Transactions on Automatic Control, 2000, 45, 993-998.	3.6	5
59	Optimization of generalized solutions of nonlinear hybrid (discrete-continuous) systems. Lecture Notes in Computer Science, 1998, , 334-345.	1.0	2
60	Regularization of a generalized Kalman filter. Mathematics and Computers in Simulation, 1995, 39, 87-108.	2.4	11
61	Dynamical systems with controlled singularities: physically based representation and control-oriented modeling. , 0, , .		10
62	Advanced guidance law design based on the information-set concept. , 0, , .		2