Andrey Borisov

List of Publications by Year
in descending order

34 papers	150 citations	1306789 7 h-index	1372195 10 g-index
38 all docs	38 docs citations	38 times ranked	69 citing authors

#	Article	IF	Citations
1	Optimal filtering in stochastic discrete-time systems with unknown inputs. IEEE Transactions on Automatic Control, 1994, 39, 2461-2464.	3.6	19
2	The Conditionally Minimax Nonlinear Filtering Method and Modern Approaches to State Estimation in Nonlinear Stochastic Systems. Automation and Remote Control, 2018, 79, 1-11.	0.4	11
3	Passive Underwater Target Tracking: Conditionally Minimax Nonlinear Filtering with Bearing-Doppler Observations. Sensors, 2020, 20, 2257.	2.1	11
4	The Wonham filter under uncertainty: A gameâ€“theoretic approach. Automatica, 2011, 47, 1015-1019.	3.0	9
5	Hidden Markov model approach to TCP link state tracking. , 2004, , .		8
6	Analysis and Estimation of the States of Special Jump Markov Processes. I. Martingale Representation. Automation and Remote Control, 2004, 65, 44-57.	0.4	8
7	Wonham Filtering by Observations with Multiplicative Noises. Automation and Remote Control, 2018, 79, 39-50.	0.4	8
8	Optimal Filtering of Markov Jump Processes Given Observations with State-Dependent Noises: Exact Solution and Stable Numerical Schemes. Mathematics, 2020, 8, 506.	1.1	8
9	Analysis and Estimation of the States of Special Jump Markov Processes. II. Optimal Filtration in Wiener Noise. Automation and Remote Control, 2004, 65, 741-754.	0.4	6
10	Application of optimal filtering methods for on-line of queueing network states. Automation and Remote Control, 2016, 77, 277-296.	0.4	6
11	Filtering of the Markov jump process given the observations of multivariate point process. Automation and Remote Control, 2015, 76, 219-240.	0.4	5
12	Partial Diffusion Markov Model of Heterogeneous TCP Link: Optimization with Incomplete Information. Mathematics, 2021, 9, 1632.	1.1	5
13	A solution of the filtering and smoothing problems for uncertain-stochastic linear dynamic systems. International Journal of Control, 1994, 60, 413-423.	1.2	4
14	Analysis and Filtration of Special Discrete-Time Markov Processes. II. Optimal Filtration. Automation and Remote Control, 2005, 66, 1125-1136.	0.4	4
15	Backward representation of Markov jump processes and related problems. I. Optimal linear estimation. Automation and Remote Control, 2006, 67, 1228-1250.	0.4	4
16	Backward representation of Markov jump processes and related problems. II. Optimal nonlinear estimation. Automation and Remote Control, 2006, 67, 1466-1484.	0.4	4
17	Optimal state filtering of controllable systems with random structure. Journal of Computer and Systems Sciences International, 2007, 46, 348-358.	0.2	4
18	Controllable Markov Jump Processes. I. Optimum Filtering Based on Complex Observations. Journal of Computer and Systems Sciences International, 2018, 57, 890-906.	0.2	4

#	Article	IF	Citations
19	Optimal Stabilization of Linear Stochastic System with Statistically Uncertain Piecewise Constant Drift. Mathematics, 2022, 10, 184.	1.1	4
20	Minimax a posteriori estimation in the hidden Markov models. Automation and Remote Control, 2007, 68, 1917-1930.	0.4	3
21	Conditionally Minimax Prediction in Nonlinear Stochastic Systemsâˆ—âˆ—The work is supported in part by Russian Foundation for Basic Research (Project No. 13-07-00408).. IFAC-PapersOnLine, 2015, 48, 802-807.	0.5	3
22	A posteriori minimax estimation with likelihood constraints. Automation and Remote Control, 2012, 73, 1481-1497.	0.4	2
23	Analysis and Filtration of Special Discrete-Time Markov Processes. I. Martingale Representation. Automation and Remote Control, 2005, 66, 953-962.	0.4	1
24	State Analysis of Hidden Markov Models Governed by Special Jump Processes. Theory of Probability and Its Applications, 2007, 51, 518-528.	0.1	1
25	Specific optimal estimation of special Markov jump processes. Automation and Remote Control, 2007, 68, 413-429.	0.4	1
26	Optimal estimates for the operating parameters of an information web portal. Automation and Remote Control, 2010, 71, 379-394.	0.4	1
27	State Estimation by Continuous-Time Observations in Multiplicative Noise * *The research is partially supported by the Russian Foundation for Basic Research (grants Nos. 15-37-20611 and 16-07-00677).. IFAC-PapersOnLine, 2017, 50, 1601-1606.	0.5	1
28	Controllable Markov Jump Processes. II. Monitoring and Optimization of TCP Connections. Journal of Computer and Systems Sciences International, 2019, 58, 12-28.	0.2	1
29	Optimization of TCP Algorithm for Wiredâ€"Wireless Channels Based on Connection State Estimation. , 2019, , .		1
30	Conditionally-Minimax Nonlinear Filtering for Continuous-Discrete Stochastic Observation Systems: Comparative Study in Target Tracking. , 2019, , .		1
31	Minimax Estimation in Regression under Sample Conformity Constraints. Mathematics, 2021, 9, 1080.	1.1	1
32	Optimal Filtering for HMM Governed by Special Jump Processes. , 0, , .		0
33	Optimal and Conditionally-Optimal Filtering of Special Markov Jump Processes. , 2007, , .		0
34	Partially Observable Multivariate Point Processes with Linear Random Compensators: Analysis and Filtering with Applications to Queueing Networksâˆ—âˆ—The research is supported by the Russian Foundation for Basic Research (grants Nos. 13-01-00406 and 13-07-00408).. IFAC-PapersOnLine, 2015, 48, 1108-1113.	0.5	0