

João B R Do Val

List of Publications by Year in descending order

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papers

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all docs

43
docs citations

43
times ranked

374
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode-Independent \mathcal{H}_2 -Control of a DC Motor Modeled as a Markov Jump Linear System. IEEE Transactions on Control Systems Technology, 2014, 22, 1915-1919.	5.2	93
2	On the control of Markov jump linear systems with no mode observation: application to a DC Motor device. International Journal of Robust and Nonlinear Control, 2013, 23, 1136-1150.	3.7	74
3	On the Observability and Detectability of Continuous-Time Markov Jump Linear Systems. SIAM Journal on Control and Optimization, 2002, 41, 1295-1314.	2.1	68
4	Optimal Control of DC-DC Buck Converter via Linear Systems With Inaccessible Markovian Jumping Modes. IEEE Transactions on Control Systems Technology, 2016, 24, 1820-1827.	5.2	44
5	Weak detectability and the linear-quadratic control problem of discrete-time Markov jump linear systems. International Journal of Control, 2002, 75, 1282-1292.	1.9	43
6	Output feedback of Markov jump linear systems with no mode observation: An automotive throttle application. International Journal of Robust and Nonlinear Control, 2016, 26, 1980-1993.	3.7	33
7	A New Approach to Detectability of Discrete-Time Infinite Markov Jump Linear Systems. SIAM Journal on Control and Optimization, 2005, 43, 2132-2156.	2.1	30
8	Average Cost and Stability of Time-Varying Linear Systems. IEEE Transactions on Automatic Control, 2010, 55, 714-720.	5.7	24
9	Quadratic costs and second moments of jump linear systems with general Markov chain. Mathematics of Control, Signals, and Systems, 2011, 23, 141-157.	2.3	20
10	Switching Stochastic Nonlinear Systems With Application to an Automotive Throttle. IEEE Transactions on Automatic Control, 2018, 63, 3098-3104.	5.7	14
11	Modeling and Control of Stochastic Systems With Poorly Known Dynamics. IEEE Transactions on Automatic Control, 2017, 62, 4467-4482.	5.7	11
12	Uniform Approximation of Infinite Horizon Control Problems for Nonlinear Systems and Stability of the Approximating Controls. IEEE Transactions on Automatic Control, 2009, 54, 881-886.	5.7	7
13	Richards growth model and viability indicators for populations subject to interventions. Anais Da Academia Brasileira De Ciencias, 2010, 82, 1107-1126.	0.8	6
14	Gradient-based optimization techniques for the design of static controllers for Markov jump linear systems with unobservable modes. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2015, 28, 239-253.	1.9	6
15	Robust Estimation and Filtering for Poorly Known Models. , 2020, 4, 474-479.		6
16	Bounds for the Finite Horizon Cost of Markov Jump Linear Systems with Additive Noise and Convergence for the Long Run Average Cost. , 2006, , .		5
17	On the existence of stationary optimal policies for the average cost control problem of linear systems with abstract state-feedback. , 2008, , .		4
18	Linear quadratic regulator for a class of Markovian jump systems with control in jumps. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
19	Tracking with range rate measurements: Turn rate estimation and particle filtering. , 2012, , .		4
20	Optimal cost convergence with respect to the time horizon. , 2003, , .		4
21	Approximate Dynamic Programming Based on Expansive Projections. , 2006, , .		3
22	Control variation as a source of uncertainty: Single input case. , 2009, , .		3
23	Average optimal stationary policies: convexity and convergence conditions in linear stochastic control systems. , 2009, , .		3
24	Minimum second moment state for the existence of average optimal stationary policies in linear stochastic systems. , 2010, , .		3
25	Drones and helicopters classification using point clouds features from radar. , 2018, , .		3
26	EKF on lie groups for radar tracking using polar and Doppler measurements. , 2018, , .		3
27	Stochastic optimal control of systems for which control variation increases uncertainty: A contribution to the discrete time case. , 2017, , .		2
28	When control and state variations increase uncertainty: Modeling and stochastic control in discrete time. Automatica, 2021, 123, 109341.	5.0	2
29	Approximate analysis of multiqueue systems with multiple cyclic servers. Performance Evaluation, 1994, 20, 391-412.	1.2	1
30	State estimation using GM-PHD filter applied to the tracking of individuals. , 2013, , .		1
31	Control of temperature to suppress the population of Rhyzopertha dominica (F.) (Coleoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 1		1
32	Almost Periodic Parameters for the Second Moment Stability of Linear Stochastic Systems. IEEE Transactions on Automatic Control, 2014, 59, 1072-1077.	5.7	1
33	Stationary policies for lower bounds on the minimum average cost of discrete-time nonlinear control systems. International Journal of Robust and Nonlinear Control, 2014, 24, 2943-2957.	3.7	1
34	A trajectory simulator for individual movements using probabilistic distribution profiles. , 2016, , .		1
35	A stochastic approach for robustness: A H_{∞} -norm comparison. , 2017, , .		1
36	Stationary policies for the second moment stability in a class of stochastic systems. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Controlling uncertain stochastic systems: Performance comparisons in a scalar system. , 2013, , .		0
38	On the numerical solution of the control problem of switched linear systems. , 2013, , .		0
39	Stochastic stability for a model representing the intake manifold pressure of an automotive engine. Cogent Engineering, 2016, 3, 1236654.	2.2	0
40	Selecting a low PRF for helicopter classification: A Markov chain approach. , 2017, , .		0
41	Filtering of Poorly Known Systems: Estimation Variations as Source of Uncertainty. , 2018, , .		0
42	Observability Notions for CSVIU and Stability in Connection with Some Norms. , 2020, , .		0