Francois Dufour

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90 790 15 23 g-index

97 936 1.6 4.38 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
90	Stability and Ergodicity of Piecewise Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2008 , 47, 1053-1077	1.9	51
89	Exact hybrid filters in discrete time. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 1807-1810	5.9	44
88	An image-based filter for discrete-time markovian jump linear systems. <i>Automatica</i> , 1996 , 32, 241-247	5.7	35
87	Adaptive control of linear systems with Markov perturbations. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 351-372	5.9	34
86	Stability of Piecewise-Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 1483-1502	1.9	31
85	Filtering with Discrete State Observations. Applied Mathematics and Optimization, 1999, 40, 259-272	1.5	29
84	State and Mode Estimation for Discrete-Time Jump Markov Systems. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 1081-1104	1.9	27
83	Approximation of Markov decision processes with general state space. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 388, 1254-1267	1.1	26
82	Finite Linear Programming Approximations of Constrained Discounted Markov Decision Processes. SIAM Journal on Control and Optimization, 2013 , 51, 1298-1324	1.9	26
81	Continuous Average Control of Piecewise Deterministic Markov Processes. <i>SpringerBriefs in Mathematics</i> , 2013 ,	0.6	23
80	Maximum Principle for Singular Stochastic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 668-698	1.9	22
79	Singular Stochastic Control Problems. SIAM Journal on Control and Optimization, 2004, 43, 708-730	1.9	22
78	Numerical method for optimal stopping of piecewise deterministic Markov processes. <i>Annals of Applied Probability</i> , 2010 , 20,	2	21
77	Piecewise Deterministic Markov Processes based approach applied to an offshore oil production system. <i>Reliability Engineering and System Safety</i> , 2014 , 126, 126-134	6.3	18
76	Almost Sure Stabilization for Feedback Controls of Regime-Switching Linear Systems With a Hidden Markov Chain. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2114-2125	5.9	18
75	Generalized Solutions in Nonlinear Stochastic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2002 , 40, 1724-1745	1.9	14
74	Approximation of average cost Markov decision processes using empirical distributions and concentration inequalities. <i>Stochastics</i> , 2015 , 87, 273-307	0.6	13

(2016-2016)

73	Constrained and Unconstrained Optimal Discounted Control of Piecewise Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1444-1474	1.9	12	
72	Numerical method for impulse control of piecewise deterministic Markov processes. <i>Automatica</i> , 2012 , 48, 779-793	5.7	12	
71	Optimal stopping for partially observed piecewise-deterministic Markov processes. <i>Stochastic Processes and Their Applications</i> , 2013 , 123, 3201-3238	1.1	12	
70	Stochastic approximations of constrained discounted Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , 2014 , 413, 856-879	1.1	12	
69	Non-Parametric Estimation of the Conditional Distribution of the Interjumping Times for Piecewise-Deterministic Markov Processes. <i>Scandinavian Journal of Statistics</i> , 2014 , 41, 950-969	0.8	11	
68	Singular Perturbation for the Discounted Continuous Control of Piecewise Deterministic Markov Processes. <i>Applied Mathematics and Optimization</i> , 2011 , 63, 357-384	1.5	11	
67	. IEEE Transactions on Automatic Control, 1994, 39, 2354-2357	5.9	11	
66	On the existence of strict optimal controls for constrained, controlled Markov processes in continuous time. <i>Stochastics</i> , 2012 , 84, 55-78	0.6	10	
65	On the Poisson Equation for Piecewise-Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 985-1001	1.9	10	
64	Impulsive Control for Continuous-Time Markov Decision Processes: A Linear Programming Approach. <i>Applied Mathematics and Optimization</i> , 2016 , 74, 129-161	1.5	9	
63	Optimal impulsive control of piecewise deterministic Markov processes. Stochastics, 2016, 88, 1073-109	9& .6	9	
62	Average control of Markov decision processes with Feller transition probabilities and general action spaces. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 396, 58-69	1.1	9	
61	Necessary conditions for optimal singular stochastic control problems. <i>Stochastics</i> , 2007 , 79, 469-504	0.6	9	
60	Discrete-time estimation of a Markov chain with marked point process observations. Application to Markovian jump filtering. <i>IEEE Transactions on Automatic Control</i> , 2001 , 45, 903-908	5.9	9	
59	Impulsive Control for Continuous-Time Markov Decision Processes. <i>Advances in Applied Probability</i> , 2015 , 47, 106-127	0.7	8	
58	Singularly Perturbed Discounted Markov Control Processes in a General State Space. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 720-747	1.9	8	
57	The Expected Total Cost Criterion for Markov Decision Processes under Constraints: A Convex Analytic Approach. <i>Advances in Applied Probability</i> , 2012 , 44, 774-793	0.7	8	
56	Computable approximations for continuous-time Markov decision processes on Borel spaces based on empirical measures. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 443, 1323-1361	1.1	7	

55	A linear programming formulation for constrained discounted continuous control for piecewise deterministic Markov processes. <i>Journal of Mathematical Analysis and Applications</i> , 2015 , 424, 892-914	1.1	7
54	Nonparametric estimation of the jump rate for non-homogeneous marked renewal processes. Annales De Llinstitut Henri Poincare (B) Probability and Statistics, 2013, 49,	1.3	7
53	Multiobjective Stopping Problem for Discrete-Time Markov Processes: Convex Analytic Approach. Journal of Applied Probability, 2010 , 47, 947-966	0.8	7
52	The Vanishing Discount Approach for the Average Continuous Control of Piecewise Deterministic Markov Processes. <i>Journal of Applied Probability</i> , 2009 , 46, 1157-1183	0.8	7
51	Numerical Methods for the Exit Time of a Piecewise-Deterministic Markov Process. <i>Advances in Applied Probability</i> , 2012 , 44, 196-225	0.7	7
50	The Expected Total Cost Criterion for Markov Decision Processes under Constraints: A Convex Analytic Approach. <i>Advances in Applied Probability</i> , 2012 , 44, 774-793	0.7	7
49	On the ergodic decomposition for a class of Markov chains. <i>Stochastic Processes and Their Applications</i> , 2005 , 115, 401-415	1.1	7
48	2015,		6
47	Average Continuous Control of Piecewise Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4262-4291	1.9	6
46	Numerical method for expectations of piecewise deterministic Markov processes. <i>Communications in Applied Mathematics and Computational Science</i> , 2012 , 7, 63-104	1.1	6
45	Conditions for the Solvability of the Linear Programming Formulation for Constrained Discounted Markov Decision Processes. <i>Applied Mathematics and Optimization</i> , 2016 , 74, 27-51	1.5	5
44	Optimal strategies for impulse control of piecewise deterministic Markov processes. <i>Automatica</i> , 2017 , 77, 219-229	5.7	5
43	Power-of-d-Choices with Memory: Fluid Limit and Optimality. <i>Mathematics of Operations Research</i> , 2020 , 45, 862-888	1.5	5
42	The Expected Total Cost Criterion for Markov Decision Processes under Constraints. <i>Advances in Applied Probability</i> , 2013 , 45, 837-859	0.7	5
41	Ergodic properties and ergodic decompositions of continuous-time Markov processes. <i>Journal of Applied Probability</i> , 2006 , 43, 767-781	0.8	5
40	A sufficient condition for the existence of an invariant probability measure for Markov processes. Journal of Applied Probability, 2005 , 42, 873-878	0.8	5
39	Invariant probability measures for a class of Feller Markov chains. <i>Statistics and Probability Letters</i> , 2000 , 50, 13-21	0.6	5
38	The Vanishing Discount Approach for the Average Continuous Control of Piecewise Deterministic Markov Processes. <i>Journal of Applied Probability</i> , 2009 , 46, 1157-1183	0.8	5

37	Partially observed optimal stopping problem for discrete-time Markov processes. 4or, 2017, 15, 277-30	21.4	4
36	Stochastic control of observer trajectories in passive tracking with acoustic signal propagation optimisation. <i>IET Radar, Sonar and Navigation</i> , 2018 , 12, 112-120	1.4	4
35	Optimal stopping for the predictive maintenance of a structure subject to corrosion. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability,</i> 2012 , 226, 169-181	0.8	4
34	Multiobjective Stopping Problem for Discrete-Time Markov Processes: Convex Analytic Approach. <i>Journal of Applied Probability</i> , 2010 , 47, 947-966	0.8	4
33	Piecewise optimal trajectories of observer for bearings-only tracking by quantization 2017,		3
32	The Expected Total Cost Criterion for Markov Decision Processes under Constraints. <i>Advances in Applied Probability</i> , 2013 , 45, 837-859	0.7	3
31	Numerical Methods for the Exit Time of a Piecewise-Deterministic Markov Process. <i>Advances in Applied Probability</i> , 2012 , 44, 196-225	0.7	3
30	Impulsive Control for Continuous-Time Markov Decision Processes. <i>Advances in Applied Probability</i> , 2015 , 47, 106-127	0.7	2
29	Stochastic control for underwater optimal trajectories 2012 ,		2
28	The Policy Iteration Algorithm for Average Continuous Control of Piecewise Deterministic Markov Processes. <i>Applied Mathematics and Optimization</i> , 2010 , 62, 185-204	1.5	2
27	Ergodic properties and ergodic decompositions of continuous-time Markov processes. <i>Journal of Applied Probability</i> , 2006 , 43, 767-781	0.8	2
26	An Algorithmic Estimation Scheme for Hybrid Stochastic Systems		2
25	Necessary and sufficient conditions for non-singular invariant probability measures for Feller Markov chains. <i>Statistics and Probability Letters</i> , 2001 , 53, 47-57	0.6	2
24	A sufficient condition for the existence of an invariant probability measure for Markov processes. <i>Journal of Applied Probability</i> , 2005 , 42, 873-878	0.8	2
23	Approximation of Infinite Horizon Discounted Cost Markov Decision Processes 2012, 59-76		2
22	Computable approximations for average Markov decision processes in continuous time. <i>Journal of Applied Probability</i> , 2018 , 55, 571-592	0.8	1
21	Numerical Method for Control of Piecewise-deterministic Markov Processes 2018, 147-172		1
20	Controlling IL-7 Injections in HIV-Infected Patients. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 2349-23	772.1	1

19	Singular perturbation for the discounted continuous control of piecewise deterministic Markov processes 2010 ,		1
18	Stability and ergodicity of piecewise deterministic Markov processes 2008,		1
17	Relaxed long run average continuous control of piecewise deterministic Markov processes 2007,		1
16	On The Performance of Gaussian Mixture Estimation Techniques for Dicrete-Time Jump Markov Linear Systems 2006 ,		1
15	Exact Smoothers for Discrete-Time Hybrid Stochastic Systems		1
14	Average Continuous Control of Piecewise Deterministic Markov Processes		1
13	The APPRODYN Project: Dynamic Reliability Approaches to Modeling Critical Systems141-179		1
12	On the Expected Total Reward with Unbounded Returns for Markov Decision Processes. <i>Applied Mathematics and Optimization</i> , 2020 , 82, 433-450	1.5	1
11	Zero-Sum Discounted Reward Criterion Games for Piecewise Deterministic Markov Processes. <i>Applied Mathematics and Optimization</i> , 2018 , 78, 587-611	1.5	О
10	Approximation of the value function of an impulse control problem of Piecewise Deterministic Markov Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 3474-3479		О
9	Numerical method for optimal stopping of hybrid processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 114-119		0
8	Integro-differential optimality equations for the risk-sensitive control of piecewise deterministic Markov processes. <i>Mathematical Methods of Operations Research</i> , 2021 , 93, 327-357	1	O
7	On the equivalence of the integral and differential Bellman equations in impulse control problems. <i>International Journal of Control</i> , 2020 , 1-14	1.5	
6	Hamilton-Jacobi-Bellman inequality for the average control of piecewise deterministic Markov processes. <i>Stochastics</i> , 2019 , 91, 817-835	0.6	
5	SINGULAR STOCHASTIC MAXIMUM PRINCIPLE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 29-34		
4	Numerical Approximations for Discounted Continuous Time Markov Decision Processes. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2019 , 147-171	0.5	
3	A Convex Programming Approach for Discrete-Time Markov Decision Processes under the Expected Total Reward Criterion. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 2535-2566	1.9	
2	Approximation of Discounted Minimax Markov Control Problems and Zero-Sum Markov Games Using Hausdorff and Wasserstein Distances. <i>Dynamic Games and Applications</i> , 2019 , 9, 68-102	1.1	

Maximizing the probability of visiting a set infinitely often for a countable state space Markov decision process. *Journal of Mathematical Analysis and Applications*, **2022**, 505, 125639

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