

Francois Dufour

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/791096/francois-dufour-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	790 citations	15 h-index	23 g-index
97 ext. papers	936 ext. citations	1.6 avg, IF	4.38 L-index

#	Paper	IF	Citations
90	Maximizing the probability of visiting a set infinitely often for a countable state space Markov decision process. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 505, 125639	1.1	
89	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	0
88	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	
87	Power-of-d-Choices with Memory: Fluid Limit and Optimality. <i>Mathematics of Operations Research</i> , 2020 , 45, 862-888	1.5	5
86	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	
85	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
84	Hamilton-Jacobi-Bellman inequality for the average control of piecewise deterministic Markov processes. <i>Stochastics</i> , 2019 , 91, 817-835	0.6	
83	Numerical Approximations for Discounted Continuous Time Markov Decision Processes. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2019 , 147-171	0.5	
82	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	
81	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
80	Zero-Sum Discounted Reward Criterion Games for Piecewise Deterministic Markov Processes. <i>Applied Mathematics and Optimization</i> , 2018 , 78, 587-611	1.5	0
79	Computable approximations for average Markov decision processes in continuous time. <i>Journal of Applied Probability</i> , 2018 , 55, 571-592	0.8	1
78	Numerical Method for Control of Piecewise-deterministic Markov Processes 2018 , 147-172		1
77	Controlling IL-7 Injections in HIV-Infected Patients. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 2349-2377	2.1	1
76	Optimal strategies for impulse control of piecewise deterministic Markov processes. <i>Automatica</i> , 2017 , 77, 219-229	5.7	5
75	Partially observed optimal stopping problem for discrete-time Markov processes. <i>4or</i> , 2017 , 15, 277-302	1.4	4
74	Piecewise optimal trajectories of observer for bearings-only tracking by quantization 2017 ,		3

73	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
72	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
71	Optimal impulsive control of piecewise deterministic Markov processes. <i>Stochastics</i> , 2016 , 88, 1073-1098.	0.6	9
70	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
69	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
68	Approximation of average cost Markov decision processes using empirical distributions and concentration inequalities. <i>Stochastics</i> , 2015 , 87, 273-307	0.6	13
67	Impulsive Control for Continuous-Time Markov Decision Processes. <i>Advances in Applied Probability</i> , 2015 , 47, 106-127	0.7	2
66	2015,		6
65	Impulsive Control for Continuous-Time Markov Decision Processes. <i>Advances in Applied Probability</i> , 2015 , 47, 106-127	0.7	8
64	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
63	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
62	Stochastic approximations of constrained discounted Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , 2014 , 413, 856-879	1.1	12
61	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
60	Finite Linear Programming Approximations of Constrained Discounted Markov Decision Processes. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 1298-1324	1.9	26
59	Optimal stopping for partially observed piecewise-deterministic Markov processes. <i>Stochastic Processes and Their Applications</i> , 2013 , 123, 3201-3238	1.1	12
58	The Expected Total Cost Criterion for Markov Decision Processes under Constraints. <i>Advances in Applied Probability</i> , 2013 , 45, 837-859	0.7	5
57	Nonparametric estimation of the jump rate for non-homogeneous marked renewal processes. <i>Annales De L'institut Henri Poincare (B) Probability and Statistics</i> , 2013 , 49,	1.3	7
56	The Expected Total Cost Criterion for Markov Decision Processes under Constraints. <i>Advances in Applied Probability</i> , 2013 , 45, 837-859	0.7	3

55	Continuous Average Control of Piecewise Deterministic Markov Processes. <i>SpringerBriefs in Mathematics</i> , 2013 ,	0.6	23
54	Numerical method for impulse control of piecewise deterministic Markov processes. <i>Automatica</i> , 2012 , 48, 779-793	5.7	12
53	Approximation of Markov decision processes with general state space. <i>Journal of Mathematical Analysis and Applications</i> , 2012 , 388, 1254-1267	1.1	26
52	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
51	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
50	Stochastic control for underwater optimal trajectories 2012 ,		2
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	Approximation of Infinite Horizon Discounted Cost Markov Decision Processes 2012 , 59-76		2
41	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		0
40	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
39	Multiobjective Stopping Problem for Discrete-Time Markov Processes: Convex Analytic Approach. <i>Journal of Applied Probability</i> , 2010 , 47, 947-966	0.8	7
38	Average Continuous Control of Piecewise Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4262-4291	1.9	6

37	Singular perturbation for the discounted continuous control of piecewise deterministic Markov processes 2010 ,		1
36	Numerical method for optimal stopping of piecewise deterministic Markov processes. <i>Annals of Applied Probability</i> , 2010 , 20,	2	21
35	Multiobjective Stopping Problem for Discrete-Time Markov Processes: Convex Analytic Approach. <i>Journal of Applied Probability</i> , 2010 , 47, 947-966	0.8	4
34	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
33	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
32	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
31	Numerical method for optimal stopping of hybrid processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 114-119		0
30	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
29	Stability and Ergodicity of Piecewise Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2008 , 47, 1053-1077	1.9	51
28	Stability and ergodicity of piecewise deterministic Markov processes 2008 ,		1
27	Relaxed long run average continuous control of piecewise deterministic Markov processes 2007 ,		1
26	Necessary conditions for optimal singular stochastic control problems. <i>Stochastics</i> , 2007 , 79, 469-504	0.6	9
25	On The Performance of Gaussian Mixture Estimation Techniques for Discrete-Time Jump Markov Linear Systems 2006 ,		1
24	Maximum Principle for Singular Stochastic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 668-698	1.9	22
23	Ergodic properties and ergodic decompositions of continuous-time Markov processes. <i>Journal of Applied Probability</i> , 2006 , 43, 767-781	0.8	2
22	Ergodic properties and ergodic decompositions of continuous-time Markov processes. <i>Journal of Applied Probability</i> , 2006 , 43, 767-781	0.8	5
21	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
20	SINGULAR STOCHASTIC MAXIMUM PRINCIPLE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 29-34		

19	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	5
18	On the ergodic decomposition for a class of Markov chains. <i>Stochastic Processes and Their Applications</i> , 2005 , 115, 401-415	1.1	7
17	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
16	Singular Stochastic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2004 , 43, 708-730	1.9	22
15	On the Poisson Equation for Piecewise-Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 985-1001	1.9	10
14	Generalized Solutions in Nonlinear Stochastic Control Problems. <i>SIAM Journal on Control and Optimization</i> , 2002 , 40, 1724-1745	1.9	14
13	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
12	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
11	Invariant probability measures for a class of Feller Markov chains. <i>Statistics and Probability Letters</i> , 2000 , 50, 13-21	0.6	5
10	Filtering with Discrete State Observations. <i>Applied Mathematics and Optimization</i> , 1999 , 40, 259-272	1.5	29
9	Stability of Piecewise-Deterministic Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 1483-1502	1.9	31
8	Adaptive control of linear systems with Markov perturbations. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 351-372	5.9	34
7	Exact hybrid filters in discrete time. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 1807-1810	5.9	44
6	An image-based filter for discrete-time markovian jump linear systems. <i>Automatica</i> , 1996 , 32, 241-247	5.7	35
5	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 2354-2357	5.9	11
4	An Algorithmic Estimation Scheme for Hybrid Stochastic Systems		2
3	Exact Smoothers for Discrete-Time Hybrid Stochastic Systems		1
2	Average Continuous Control of Piecewise Deterministic Markov Processes		1

1	The APPRODYN Project: Dynamic Reliability Approaches to Modeling Critical Systems141-179	1
---	--	---