

Hasnaa Zidani

List of Publications by Year in Descending Order

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

58 papers	841 citations	13 h-index	27 g-index
62 ext. papers	948 ext. citations	1.5 avg, IF	4.34 L-index

#	Paper	IF	Citations
58	Optimistic planning algorithms for state-constrained optimal control problems. <i>Computers and Mathematics With Applications</i> , 2022 , 109, 158-179	2.7	1
57	A differential game control problem with state constraints. <i>Mathematical Control and Related Fields</i> , 2022 ,	1.5	0
56	Global Optimization Approach for the Ascent Problem of Multi-stage Launchers 2021 , 1-42		
55	Demand response versus storage flexibility in energy: multi-objective programming considerations. <i>Optimization</i> , 2021 , 70, 1459-1486	1.2	1
54	Error Estimates for Numerical Approximation of Hamilton-Jacobi Equations Related to Hybrid Control Systems. <i>Applied Mathematics and Optimization</i> , 2021 , 83, 139-175	1.5	0
53	Relationship between maximum principle and dynamic programming in presence of intermediate and final state constraints. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2021 , 27, 91	1	2
52	Stability and reachability analysis for a controlled heterogeneous population of cells. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 1678-1704	1.7	3
51	Preface of the Special Issue New Horizons in Optimal Control- a Special Tribute to Helmut Maurer, Urszula Ledzewicz and Heinz Schättler. <i>Set-Valued and Variational Analysis</i> , 2019 , 27, 305-307	1	
50	Junction conditions for finite horizon optimal control problems on multi-domains with continuous and discontinuous solutions. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2019 , 25, 79	1	0
49	Pareto Front Characterization for Multiobjective Optimal Control Problems Using Hamilton-Jacobi Approach. <i>SIAM Journal on Control and Optimization</i> , 2019 , 57, 3884-3910	1.9	8
48	The Mayer and Minimum Time Problems with Stratified State Constraints. <i>Set-Valued and Variational Analysis</i> , 2018 , 26, 643-662	1	6
47	Solving chance constrained optimal control problems in aerospace via kernel density estimation. <i>Optimal Control Applications and Methods</i> , 2018 , 39, 1833-1858	1.7	9
46	Optimal control of normalized SIMR models with vaccination and treatment. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2018 , 23, 79-99	1.3	2
45	Value function and optimal trajectories for a maximum running cost control problem with state constraints. Application to an abort landing problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018 , 52, 305-335	1.8	11
44	Infinite Horizon Stochastic Optimal Control Problems with Running Maximum Cost. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 3296-3319	1.9	4
43	Hamilton-Jacobi-Bellman equations for optimal control processes with convex state constraints. <i>Systems and Control Letters</i> , 2017 , 109, 30-36	2.4	7
42	Discontinuous solutions of Hamilton-Jacobi equations on networks. <i>Journal of Differential Equations</i> , 2017 , 263, 8418-8466	2.1	3

41	Payload optimization for multi-stage launchers using HJB approach and application to a SSO mission * **This work is partially supported by Centre National d'Etudes Spatiales (CNES), under the grant RT-NT-4310000-ZZ-1602-ENST, by the French National Research Agency (ANR) through the iCODE Institute project funded by the IDEX Paris-Saclay ANR-11-IDEX-0003-02, and by the DGA	0.7	3
40	State-Constrained Stochastic Optimal Control Problems via Reachability Approach. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 2568-2593	1.9	12
39	A Hamilton-Jacobi-Bellman approach for the optimal control of an abort landing problem 2016 ,		4
38	HJB approach for a multi-boost launcher trajectory optimization problem**This work is partially supported by Centre National d'Etudes Spatiales (CNES), under the grant RT-CR-430-1304-CNES, by iCODE Institute project funded by the IDEX Paris-Saclay, ANR-11-IDEX-0003-02, and by DGA under the grant DGA-ENSTA-06-60-037. <i>IFAC-PapersOnLine</i> , 2016 , 49, 456-461	0.7	2
37	Zubov's equation for state-constrained perturbed nonlinear systems. <i>Mathematical Control and Related Fields</i> , 2015 , 5, 55-71	1.5	7
36	Optimal feedback control for undamped wave equations by solving a HJB equation. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2015 , 21, 442-464	1	5
35	Dynamic Programming and Error Estimates for Stochastic Control Problems with Maximum Cost. <i>Applied Mathematics and Optimization</i> , 2015 , 71, 125-163	1.5	9
34	Monotone Numerical Schemes and Feedback Construction for Hybrid Control Systems. <i>Journal of Optimization Theory and Applications</i> , 2015 , 165, 507-531	1.6	11
33	Infinite horizon problems on stratifiable state-constraints sets. <i>Journal of Differential Equations</i> , 2015 , 258, 1430-1460	2.1	19
32	Error estimates for second order Hamilton-Jacobi-Bellman equations. Approximation of probabilistic reachable sets. <i>Discrete and Continuous Dynamical Systems</i> , 2015 , 35, 3933-3964	2	3
31	Value iteration convergence of ϵ -monotone schemes for stationary Hamilton-Jacobi equations. <i>Discrete and Continuous Dynamical Systems</i> , 2015 , 35, 4041-4070	2	13
30	Level-Set Approach for Reachability Analysis of Hybrid Systems under Lag Constraints. <i>SIAM Journal on Control and Optimization</i> , 2014 , 52, 606-628	1.9	2
29	Transmission conditions on interfaces for Hamilton-Jacobi-Bellman equations. <i>Journal of Differential Equations</i> , 2014 , 257, 3978-4014	2.1	10
28	State-Constrained Optimal Control Problems of Impulsive Differential Equations. <i>Applied Mathematics and Optimization</i> , 2013 , 68, 1-19	1.5	9
27	A general Hamilton-Jacobi framework for non-linear state-constrained control problems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2013 , 19, 337-357	1	30
26	A Hamilton-Jacobi approach to junction problems and application to traffic flows. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2013 , 19, 129-166	1	46
25	Hamilton-Jacobi-Bellman Equations on Multi-domains. <i>International Series of Numerical Mathematics</i> , 2013 , 93-116	0.4	6
24	Collision analysis for an UAV 2012 ,		9

23	Optimal control problems of BV trajectories with pointwise state constraints. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 2583-2588		
22	MINIMAL TIME PROBLEMS WITH MOVING TARGETS AND OBSTACLES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 2589-2593		13
21	Deterministic state-constrained optimal control problems without controllability assumptions. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2011 , 17, 995-1015	1	12
20	Characterization of the value function of final state constrained control problems with BV trajectories. <i>Communications on Pure and Applied Analysis</i> , 2011 , 10, 1567-1587	1.9	3
19	Reachability and Minimal Times for State Constrained Nonlinear Problems without Any Controllability Assumption. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4292-4316	1.9	77
18	L^1 -error estimates for numerical approximations of Hamilton-Jacobi-Bellman equations in dimension 1. <i>Mathematics of Computation</i> , 2010 , 79, 1395-1426	1.6	4
17	Convergence of a non-monotone scheme for Hamilton-Jacobi-Bellman equations with discontinuous initial data. <i>Numerische Mathematik</i> , 2010 , 115, 1-44	2.2	12
16	An Efficient Data Structure and Accurate Scheme to Solve Front Propagation Problems. <i>Journal of Scientific Computing</i> , 2010 , 42, 251-273	2.3	14
15	Minimum time control problems for non-autonomous differential equations. <i>Systems and Control Letters</i> , 2009 , 58, 742-746	2.4	9
14	Some Convergence Results for Howard's Algorithm. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 3001-3026	2.4	71
13	Numerical Approximation for a Superreplication Problem under Gamma Constraints. <i>SIAM Journal on Numerical Analysis</i> , 2009 , 47, 2289-2320	2.4	6
12	Error Estimates for a Stochastic Impulse Control Problem. <i>Applied Mathematics and Optimization</i> , 2007 , 55, 327-357	1.5	6
11	Anti-Dissipative Schemes for Advection and Application to Hamilton-Jacobi-Bellmann Equations. <i>Journal of Scientific Computing</i> , 2007 , 30, 1-33	2.3	34
10	Error estimates for stochastic differential games: the adverse stopping case. <i>IMA Journal of Numerical Analysis</i> , 2006 , 26, 188-212	1.8	9
9	An anti-diffusive scheme for viability problems. <i>Applied Numerical Mathematics</i> , 2006 , 56, 1147-1162	2.5	18
8	Consistency of a simple multidimensional scheme for Hamilton-Jacobi-Bellman equations. <i>Comptes Rendus Mathematique</i> , 2005 , 340, 499-502	0.4	7
7	Consistency of Generalized Finite Difference Schemes for the Stochastic HJB Equation. <i>SIAM Journal on Numerical Analysis</i> , 2003 , 41, 1008-1021	2.4	63
6	A Fully Discrete Approximation for Control Problems Governed by Parabolic Variational Inequalities. <i>SIAM Journal on Numerical Analysis</i> , 2002 , 39, 2014-2033	2.4	4

5	Pontryagin's Principle For Local Solutions of Control Problems with Mixed Control-State Constraints. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 1182-1203	1.9	42
4	On the minimization of the energy of a free-electron gas with constrained density function. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1999 , 35, 1073-1090	1.3	3
3	Pontryagin's Principle for Time-Optimal Problems. <i>Journal of Optimization Theory and Applications</i> , 1999 , 101, 375-402	1.6	31
2	Hamiltonian Pontryagin's Principles for Control Problems Governed by Semilinear Parabolic Equations. <i>Applied Mathematics and Optimization</i> , 1999 , 39, 143-177	1.5	81
1	Pontryagin's Principle for State-Constrained Control Problems Governed by Parabolic Equations with Unbounded Controls. <i>SIAM Journal on Control and Optimization</i> , 1998 , 36, 1853-1879	1.9	65