

Ryan Loxton

List of Publications by Year in descending order

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77
papers

1,866
citations

236925

25
h-index

265206

42
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77
all docs

77
docs citations

77
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
19	Robust suboptimal control of nonlinear systems. <i>Applied Mathematics and Computation</i> , 2011, 217, 6566-6576.	2.2	35
20	Optimal Control of Nonlinear Switched Systems: Computational Methods and Applications. <i>Journal of the Operations Research Society of China</i> , 2013, 1, 275-311.	1.4	35
21	A computational method for solving time-delay optimal control problems with free terminal time. <i>Systems and Control Letters</i> , 2014, 72, 53-60.	2.3	35
22	On the Cauchy problem for a generalized Boussinesq equation. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 353, 186-195.	1.0	32
23	A class of optimal state-delay control problems. <i>Nonlinear Analysis: Real World Applications</i> , 2013, 14, 1536-1550.	1.7	32
24	Numerical solution of a pursuit-evasion differential game involving two spacecraft in low earth orbit. <i>Journal of Industrial and Management Optimization</i> , 2015, 11, 1127-1147.	1.3	29
25	Robust Optimal Control of a Microbial Batch Culture Process. <i>Journal of Optimization Theory and Applications</i> , 2015, 167, 342-362.	1.5	26
26	A stochastic fleet composition problem. <i>Computers and Operations Research</i> , 2012, 39, 3177-3184.	4.0	25
27	Water hammer mitigation via PDE-constrained optimization. <i>Control Engineering Practice</i> , 2015, 45, 54-63.	5.5	25
28	A neighboring extremal solution for an optimal switched impulsive control problem. <i>Journal of Industrial and Management Optimization</i> , 2012, 8, 591-609.	1.3	25
29	Switching Time and Parameter Optimization in Nonlinear Switched Systems with Multiple Time-Delays. <i>Journal of Optimization Theory and Applications</i> , 2014, 163, 957-988.	1.5	24
30	Chance-constrained optimization for pension fund portfolios in the presence of default risk. <i>European Journal of Operational Research</i> , 2017, 256, 205-214.	5.7	24
31	Time-delay estimation for nonlinear systems with piecewise-constant input. <i>Applied Mathematics and Computation</i> , 2013, 219, 9543-9560.	2.2	21
32	Optimal parameter selection for nonlinear multistage systems with time-delays. <i>Computational Optimization and Applications</i> , 2014, 59, 285-306.	1.6	21
33	Optimal 1,3-propanediol production: Exploring the trade-off between process yield and feeding rate variation. <i>Journal of Process Control</i> , 2015, 32, 1-9.	3.3	20
34	Optimal state-delay control in nonlinear dynamic systems. <i>Automatica</i> , 2022, 135, 109981.	5.0	19
35	Optimal control problems arising in the zinc sulphate electrolyte purification process. <i>Journal of Global Optimization</i> , 2012, 54, 307-323.	1.8	18
36	Bi-objective dynamic optimization of a nonlinear time-delay system in microbial batch process. <i>Optimization Letters</i> , 2018, 12, 1249-1264.	1.6	18

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37	Towards global solutions of optimal discrete-valued control problems. <i>Optimal Control Applications and Methods</i> , 2012, 33, 576-594.	2.1	17
38	VISUAL MISER: An efficient user-friendly visual program for solving optimal control problems. <i>Journal of Industrial and Management Optimization</i> , 2015, 12, 781-810.	1.3	15
39	A computational algorithm for a class of non-smooth optimal control problems arising in aquaculture operations. <i>Applied Mathematics and Computation</i> , 2013, 219, 8738-8746.	2.2	14
40	Dynamic optimization of open-loop input signals for ramp-up current profiles in tokamak plasmas. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 32, 31-48.	3.3	14
41	Optimal feedback control for dynamic systems with state constraints: An exact penalty approach. <i>Optimization Letters</i> , 2014, 8, 1535-1551.	1.6	13
42	Optimal train control via switched system dynamic optimization. <i>Optimization Methods and Software</i> , 2021, 36, 602-626.	2.4	13
43	A decision support system for grain harvesting, storage, and distribution logistics. <i>Knowledge-Based Systems</i> , 2021, 223, 107037.	7.1	12
44	A computational method for a class of non-standard time optimal control problems involving multiple time horizons. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1682-1691.	2.0	9
45	A Max-Min Control Problem Arising in Gradient Elution Chromatography. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6137-6144.	3.7	9
46	An optimal machine maintenance problem with probabilistic state constraints. <i>Information Sciences</i> , 2014, 281, 386-398.	6.9	9
47	Optimal fleet composition via dynamic programming and golden section search. <i>Journal of Industrial and Management Optimization</i> , 2011, 7, 875-890.	1.3	9
48	Optimal control problems with stopping constraints. <i>Journal of Global Optimization</i> , 2015, 63, 835-861.	1.8	8
49	A generalized expansion method for nonlinear wave equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 045207.	2.1	7
50	A heuristic algorithm for optimal fleet composition with vehicle routing considerations. <i>Optimization Methods and Software</i> , 2016, 31, 272-289.	2.4	7
51	Dynamic optimization of dual-mode hybrid systems with state-dependent switching conditions. <i>Optimization Methods and Software</i> , 2018, 33, 297-310.	2.4	6
52	Stabilization of a coupled second order ODE-wave system. , 2016, , .		4
53	Cargo scheduling decision support for offshore oil and gas production: a case study. <i>Optimization and Engineering</i> , 2017, 18, 991-1008.	2.4	4
54	Modelling and optimal control of blood glucose levels in the human body. <i>Journal of Industrial and Management Optimization</i> , 2015, 11, 1149-1164.	1.3	4

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55	Optimal Investment and Proportional Reinsurance with Risk Constraint. Journal of Mathematical Finance, 2013, 03, 437-447.	0.3	3
56	Optimal control of impulsive switched systems with minimum subsystem durations. Journal of Global Optimization, 2014, 60, 737-750.	1.8	3
57	Dynamic optimization for robust path planning of horizontal oil wells. Applied Mathematics and Computation, 2016, 274, 711-725.	2.2	3
58	Minimizing control volatility for nonlinear systems with smooth piecewise-quadratic input signals. Systems and Control Letters, 2020, 145, 104797.	2.3	3
59	Geometric Control and Disturbance Decoupling for Fractional Systems. SIAM Journal on Control and Optimization, 2020, 58, 1403-1428.	2.1	3
60	Optimal control of nonlinear Markov jump systems by control parametrisation technique. IET Control Theory and Applications, 2023, 17, 241-249.	2.1	3
61	Path planning for underactuated Dubins micro-robots using switching control. , 2013, , .		2
62	State-delay estimation for nonlinear systems using inexact output data. , 2014, , .		2
63	A gradient-based parameter identification method for time-delay chaotic systems. , 2014, , .		2
64	Bi-objective optimization for robust RGB-D visual odometry. , 2015, , .		2
65	Insulin injections and exercise scheduling for individuals with diabetes: An optimal control model. Optimal Control Applications and Methods, 2018, 39, 663-681.	2.1	2
66	Factors and scenarios affecting a farmer's grain harvest logistics. Australian Journal of Agricultural and Resource Economics, 2020, 64, 244-265.	2.6	2
67	Guaranteed-cost controls of minimal variation: A numerical algorithm based on control parameterization. , 2014, , .		1
68	Finite Element Approximation and Input Parameterization for the Optimal Control of Current Profiles in Tokamak Plasmas. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7892-7897.	0.4	1
69	Output stabilization of boundary-controlled parabolic PDEs via gradient-based dynamic optimization. , 2015, , .		1
70	Optimal Operation for Medium-speed Maglev Trains. , 2020, , .		1
71	Dynamics, Control, and Optimization with Applications. Abstract and Applied Analysis, 2013, 2013, 1-1.	0.7	0
72	Dynamics, Control, and Optimization with Applications 2014. Abstract and Applied Analysis, 2014, 2014, 1-1.	0.7	0

#	ARTICLE	IF	CITATIONS
73	Dynamic optimization of tokamak plasmas via control parameterization and the time-scaling transformation. , 2015, , .		0
74	On combining neighbouring extremals with control parameterization. , 2015, , .		0
75	Fast model order reduction via nonlinear optimization. , 2016, , .		0
76	A fractional model of the friction-temperature behavior in robot joints. , 2019, , .		0
77	A mixed-integer linear programming model for optimal vessel scheduling in offshore oil and gas operations. Journal of Industrial and Management Optimization, 2017, 13, 1601-1623.	1.3	0