Dante Kalise

List of Publications by Year
in descending order

37	745	567281	552781
papers	citations	15	26
		h-index	g-index

37	37	37	569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cascade-Free Predictive Speed Control for Electrical Drives. IEEE Transactions on Industrial Electronics, 2014, 61, 2176-2184.	7.9	114
2	Invisible Control of Self-Organizing Agents Leaving Unknown Environments. SIAM Journal on Applied Mathematics, 2016, 76, 1683-1710.	1.8	80
3	Polynomial Approximation of High-Dimensional Hamilton--Jacobi--Bellman Equations and Applications to Feedback Control of Semilinear Parabolic PDEs. SIAM Journal of Scientific Computing, 2018, 40, A629-A652.	2.8	56
4	Mean Field Control Hierarchy. Applied Mathematics and Optimization, 2017, 76, 93-135.	1.6	54
5	An Efficient Policy Iteration Algorithm for Dynamic Programming Equations. SIAM Journal of Scientific Computing, 2015, 37, A181-A200.	2.8	48
6	Proximal Methods for Stationary Mean Field Games with Local Couplings. SIAM Journal on Control and Optimization, 2018, 56, 801-836.	2.1	48
7	A Collisionless Singular Cucker--Smale Model with Decentralized Formation Control. SIAM Journal on Applied Dynamical Systems, 2019, 18, 1954-1981.	1.6	44
8	Tensor Decomposition Methods for High-dimensional Hamilton--Jacobi--Bellman Equations. SIAM Journal of Scientific Computing, 2021, 43, A1625-A1650.	2.8	30
9	(Un)conditional consensus emergence under perturbed and decentralized feedback controls. Discrete and Continuous Dynamical Systems, 2015, 35, 4071-4094.	0.9	30
10	Optimal consensus control of the Cucker-Smale model. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	24
11	Infinite Horizon Sparse Optimal Control. Journal of Optimization Theory and Applications, 2017, 172, 481-517.	1.5	19
12	Reducing transatlantic flight emissions by fuel-optimised routing. Environmental Research Letters, 2021, 16, 025002.	5.2	19
13	Robust Feedback Control of Nonlinear PDEs by Numerical Approximation of High-Dimensional Hamilton--Jacobi--Isaacs Equations. SIAM Journal on Applied Dynamical Systems, 2020, 19, 1496-1524.	1.6	17
14	General requirement for harvesting antennae at Ca2+ and H+ channels and transporters. Frontiers in Neuroenergetics, 2010, 2, .	5.3	16
15	Value iteration convergence of $epsilon$-monotone schemes for stationary Hamilton-Jacobi equations. Discrete and Continuous Dynamical Systems, 2015, 35, 4041-4070.	0.9	16
16	Using mobility data in the design of optimal lockdown strategies for the COVID-19 pandemic. PLoS Computational Biology, 2021, 17, e1009236.	3.2	14
17	Smoothened Quasi-Time-Optimal Control for the Torsional Torque in a Two-Mass System. IEEE Transactions on Industrial Electronics, 2016, 63, 3954-3963.	7.9	12
18	A Boltzmann approach to mean-field sparse feedback control * *Giacomo Albi and Massimo Fornasier acknowledge the support of the ERC-Starting Grant HDSPCONTR â€œHigh-Dimensional Sparse Optimal Controlâ€. Dante Kalise acknowledges the support of the ERC-Advanced grant OCLOC 668998 â€œFrom Open to Closed Loop Optimal Control of PDEsâ€. IFAC-PapersOnLine, 2017, 50, 2898-2903.	0.9	12

#	Article	IF	Citations
19	Optimal actuator design based on shape calculus. Mathematical Models and Methods in Applied Sciences, 2018, 28, 2667-2717.	3.3	12
20	Gradient-augmented Supervised Learning of Optimal Feedback Laws Using State-Dependent Riccati Equations. , 2022, 6, 836-841.		10
21	Local Minimization Algorithms for Dynamic Programming Equations. SIAM Journal of Scientific Computing, 2016, 38, A1587-A1615.	2.8	9
22	A locking-free scheme for the LQR control of a Timoshenko beam. Journal of Computational and Applied Mathematics, 2011, 235, 1383-1393.	2.0	8
23	Sparse and switching infinite horizon optimal controls with mixed-norm penalizations. ESAIM - Control, Optimisation and Calculus of Variations, 2020, 26, 61.	1.3	7
24	(Sub)Optimal feedback control of mean field multi-population dynamics. IFAC-PapersOnLine, 2018, 51, 86-91.	0.9	6
25	Suboptimal nonlinear feedback control laws for collective dynamics. , 2018, , .		5
26	Moment-Driven Predictive Control of Mean-Field Collective Dynamics. SIAM Journal on Control and Optimization, 2022, 60, 814-841.	2.1	5
27	Numerical approximation of the LQR problem in a strongly damped wave equation. Computational Optimization and Applications, 2010, 47, 161-178.	1.6	4
28	A HJB-POD feedback synthesis approach for the wave equation. Bulletin of the Brazilian Mathematical Society, 2016, 47, 51-64.	0.8	4
29	Reduced-order LQG control of a Timoshenko beam model. Bulletin of the Brazilian Mathematical Society, 2016, 47, 143-155.	0.8	4
30	A High-Order Semi-Lagrangian/Finite Volume Scheme for Hamilton-Jacobi-Isaacs Equations. IFIP Advances in Information and Communication Technology, 2014, , 105-117.	0.7	4
31	Robust Feedback Control of Nonlinear PDEs by Polynomial Approximation of the Hamilton€Jacobi€Isaacs Equation. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900333.	0.2	3
32	The role of airspeed variability in fixed-time, fuel-optimal aircraft trajectory planning. Optimization and Engineering, 0, , .	2.4	3
33	Modeling and numerical approximation of a 2.5D set of equations for mesoscale atmospheric processes. Journal of Computational Physics, 2012, 231, 7274-7298.	3.8	2
34	An Efficient Policy Iteration Algorithm for Dynamic Programming Equations. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 467-468.	0.2	2
35	Optimal Actuator Design for the Euler-Bernoulli Vibration Model Based on LQR Performance and Shape Calculus. , 2022, 6, 1334-1339.		2
36	Controlling Swarms toward Flocks and Mills. SIAM Journal on Control and Optimization, 2022, 60, 1863-1891.	2.1	2

#	Article	IF	Citations
37	An Accelerated Value/Policy Iteration Scheme for Optimal Control Problems and Games. Lecture Notes in Computational Science and Engineering, 2015, , 489-497.	0.3	0