

Michele Pavon

List of Publications by Year in descending order

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54
papers

1,222
citations

430874

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54
all docs

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docs citations

54
times ranked

334
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Relation Between Optimal Transport and Schrödinger Bridges: A Stochastic Control Viewpoint. <i>Journal of Optimization Theory and Applications</i> , 2016, 169, 671-691.	1.5	150
2	Optimal Steering of a Linear Stochastic System to a Final Probability Distribution, Part I. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 1158-1169.	5.7	142
3	Optimal Steering of a Linear Stochastic System to a Final Probability Distribution, Part II. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 1170-1180.	5.7	92
4	Hellinger Versus Kullback-Leibler Multivariable Spectrum Approximation. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 954-967.	5.7	79
5	Optimal Transport Over a Linear Dynamical System. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 2137-2152.	5.7	70
6	A Globally Convergent Matricial Algorithm for Multivariate Spectral Estimation. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 2376-2388.	5.7	49
7	Entropic and Displacement Interpolation: A Computational Approach Using the Hilbert Metric. <i>SIAM Journal on Applied Mathematics</i> , 2016, 76, 2375-2396.	1.8	49
8	Hamilton's principle in stochastic mechanics. <i>Journal of Mathematical Physics</i> , 1995, 36, 6774-6800.	1.1	46
9	Optimal Steering of a Linear Stochastic System to a Final Probability Distribution—Part III. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 3112-3118.	5.7	41
10	A Maximum Entropy Enhancement for a Family of High-Resolution Spectral Estimators. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 318-329.	5.7	40
11	Stochastic Control Liaisons: Richard Sinkhorn Meets Gaspard Monge on a Schrödinger Bridge. <i>SIAM Review</i> , 2021, 63, 249-313.	9.5	38
12	Positive contraction mappings for classical and quantum Schrödinger systems. <i>Journal of Mathematical Physics</i> , 2015, 56, .	1.1	37
13	On the Geometry of Maximum Entropy Problems. <i>SIAM Review</i> , 2013, 55, 415-439.	9.5	29
14	Discrete-time classical and quantum Markovian evolutions: Maximum entropy problems on path space. <i>Journal of Mathematical Physics</i> , 2010, 51, .	1.1	27
15	Fast cooling for a system of stochastic oscillators. <i>Journal of Mathematical Physics</i> , 2015, 56, .	1.1	24
16	Robust Transport Over Networks. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 4675-4682.	5.7	24
17	On Free Energy, Stochastic Control, and Schrödinger Processes. , 1991, , 334-348.		24
18	Stochastic control and nonequilibrium thermodynamical systems. <i>Applied Mathematics and Optimization</i> , 1989, 19, 187-202.	1.6	22

#	ARTICLE	IF	CITATIONS
19	Optimal Transport in Systems and Control. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 89-113.	11.8	22
20	Optimal steering of inertial particles diffusing anisotropically with losses. , 2015, , .		18
21	Steering the Distribution of Agents in Mean-Field Games System. Journal of Optimization Theory and Applications, 2018, 179, 332-357.	1.5	18
22	A new formulation of stochastic mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 209, 143-149.	2.1	17
23	On the Markov processes of Schrödinger, the Feynman-Kac formula and stochastic control. , 1990, , 497-504.		17
24	On entropy production for controlled Markovian evolution. Journal of Mathematical Physics, 2006, 47, 063301.	1.1	12
25	On the well-posedness of multivariate spectrum approximation and convergence of high-resolution spectral estimators. Systems and Control Letters, 2010, 59, 167-172.	2.3	12
26	Efficient Robust Routing for Single Commodity Network Flows. IEEE Transactions on Automatic Control, 2018, 63, 2287-2294.	5.7	12
27	Equilibrium description of a particle system in a heat bath. Acta Applicandae Mathematicae, 1989, 14, 239-258.	1.0	11
28	Derivation of the wave function collapse in the context of Nelson's stochastic mechanics. Journal of Mathematical Physics, 1999, 40, 5565-5577.	1.1	10
29	Matrix Completion à la Dempster by the Principle of Parsimony. IEEE Transactions on Information Theory, 2011, 57, 3925-3931.	2.4	9
30	Relaxed Schrödinger Bridges and Robust Network Routing. IEEE Transactions on Control of Network Systems, 2020, 7, 923-931.	3.7	8
31	Lagrange lemma and the optimal control of diffusions II: Nonlinear Lagrange functionals. Systems and Control Letters, 1995, 24, 215-221.	2.3	7
32	Extremal flows in Wasserstein space. Journal of Mathematical Physics, 2018, 59, 063502.	1.1	7
33	Traversing the Schrödinger Bridge Strait: Robert Fortet's Marvelous Proof Redux. Journal of Optimization Theory and Applications, 2019, 181, 23-60.	1.5	7
34	Application of a Global Inverse Function Theorem of Byrnes and Lindquist to a Multivariable Moment Problem with Complexity Constraint. , 2010, , 153-167.		7
35	On time-reversal and space-time harmonic processes for Markovian quantum channels. Quantum Information Processing, 2010, 9, 551-574.	2.2	6
36	Covariance steering in zero-sum linear-quadratic two-player differential games. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
37	Quantum Schrödinger Bridges. , 2003, , 227-238.		6
38	The <sc>Data-Driven</sc> Schrödinger Bridge. Communications on Pure and Applied Mathematics, 2021, 74, 1545-1573.	3.1	5
39	Controlling Uncertainty. IEEE Control Systems, 2021, 41, 82-94.	0.8	4
40	Extremal Curves in Wasserstein Space. Lecture Notes in Computer Science, 2017, , 91-99.	1.3	4
41	Stochastic Norton-Simon-Massagu Tumor Growth Modeling: Controlled and Mixed-Effect Uncontrolled Analysis. IEEE Transactions on Control Systems Technology, 2021, 29, 704-717.	5.2	3
42	A new formulation of stochastic mechanics (Physics Letters A 209 (1995) 143). Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 383.	2.1	2
43	A FOOTNOTE TO NELSON'S INTERPRETATION OF THE TWO-SLIT EXPERIMENT. International Journal of Modern Physics B, 2004, 18, 745-753.	2.0	2
44	A Note on the Geometric Interpretation of Bell's Inequalities. Letters in Mathematical Physics, 2013, 103, 1165-1170.	1.1	2
45	Regularized Transport Between Singular Covariance Matrices. IEEE Transactions on Automatic Control, 2021, 66, 3339-3346.	5.7	2
46	A variational derivation of a class of BFGS-like methods. Optimization, 2018, 67, 2081-2089.	1.7	1
47	On Local Entropy, Stochastic Control, and Deep Neural Networks. , 2023, 7, 437-441.		1
48	The Most Likely Evolution of Diffusing and Vanishing Particles: Schrödinger Bridges with Unbalanced Marginals. SIAM Journal on Control and Optimization, 2022, 60, 2016-2039.	2.1	1
49	A Maximum Entropy Approach to the Realizability of Spin Correlation Matrices. Entropy, 2013, 15, 2448-2463.	2.2	0
50	Steering the Distribution of Agents in Mean-Field Games. , 2018, , .		0
51	On optimal steering of a non-Markovian Gaussian process. , 2019, , .		0
52	Controlled and Uncontrolled Stochastic Norton-Simon-Massagu Tumor Growth Models. , 2019, , .		0
53	Fast and Asymptotic Steering to a Steady State for Networks Flows. Lecture Notes in Computer Science, 2021, , 860-868.	1.3	0
54	Multivariate Itakura-Saito distance for spectral estimation: Relation between time and spectral domain relative entropy rates. Proceedings of the ISICIE International Symposium on Stochastic Systems Theory and Its Applications, 2012, 2012, 350-355.	0.2	0