

Charalambos D

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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.

100
papers

717
citations

15
h-index

21
g-index

153
ext. papers

1,005
ext. citations

3
avg. IF

4.52
L-index

#	Paper	IF	Citations
100	LQG optimality and separation principle for general discrete time partially observed stochastic systems over finite capacity communication channels. <i>Automatica</i> , 2008 , 44, 3181-3188	5.7	49
99	Stochastic Uncertain Systems Subject to Relative Entropy Constraints: Induced Norms and Monotonicity Properties of Minimax Games. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 647-663	5.9	35
98	Minimum principle for partially observable nonlinear risk-sensitive control problems using measure-valued decompositions. <i>Stochastic and Stochastics Reports</i> , 1996 , 57, 247-288		32
97	Nonanticipative Rate Distortion Function and Relations to Filtering Theory. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 937-952	5.9	29
96	On optimal signaling over secure MIMO channels 2012 ,		28
95	. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1013-1019	5.9	27
94	. <i>IEEE Transactions on Communications</i> , 2015 , 63, 2288-2299	6.9	26
93	. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 2048-2063	2.8	25
92	. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 7207-7215	2.8	23
91	Classes of Nonlinear Partially Observable Stochastic Optimal Control Problems with Explicit Optimal Control Laws. <i>SIAM Journal on Control and Optimization</i> , 1998 , 36, 542-578	1.9	23
90	Binding of sodium dodecyl sulfate to linear and star homopolymers of the nonionic poly(methoxyhexa(ethylene glycol) methacrylate) and the polycation poly(2-(dimethylamino)ethyl methacrylate): electromotive force, isothermal titration calorimetry, surface tension, and small-angle neutron scattering measurements. <i>Langmuir</i> , 2004 , 20, 6458-63	4	20
89	Directed Information on Abstract Spaces: Properties and Variational Equalities. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 6019-6052	2.8	19
88	Stochastic Power Control for Time-Varying Long-Term Fading Wireless Networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006 , 2006, 1	1.9	19
87	Zero-Delay Rate Distortion via Filtering for Vector-Valued Gaussian Sources. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018 , 12, 841-856	7.5	18
86	Stochastic Minimum Principle for Partially Observed Systems Subject to Continuous and Jump Diffusion Processes and Driven by Relaxed Controls. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 3235-3257	1.9	16
85	. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 6825-6838	2.8	15
84	Stochastic differential equations for modeling, estimation and identification of mobile-to-mobile communication channels. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1754-1763	9.6	15

83	. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2353-2368	5.9	13
82	Finite-Time Nonanticipative Rate Distortion Function for Time-Varying Scalar-Valued Gauss-Markov Sources 2018 , 2, 175-180		12
81	Stability and reliable data reconstruction of uncertain dynamic systems over finite capacity channels. <i>Automatica</i> , 2010 , 46, 889-896	5.7	12
80	Optimal Estimation via Nonanticipative Rate Distortion Function and Applications to Time-Varying Gauss-Markov Processes. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 3731-3765	1.9	12
79	Dynamic Programming Subject to Total Variation Distance Ambiguity. <i>SIAM Journal on Control and Optimization</i> , 2015 , 53, 2040-2075	1.9	11
78	Further results on optimal signaling over secure MIMO channels 2013 ,		10
77	Optimal Filtering Over Uncertain Wireless Communication Channels. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 359-362	3.2	9
76	Robust coding for a class of sources: Applications in control and reliable communication over limited capacity channels. <i>Systems and Control Letters</i> , 2008 , 57, 1005-1012	2.4	9
75	Filtering with fidelity for time-varying Gauss-Markov processes 2016 ,		9
74	Infinite Horizon Average Cost Dynamic Programming Subject to Total Variation Distance Ambiguity. <i>SIAM Journal on Control and Optimization</i> , 2019 , 57, 2843-2872	1.9	8
73	Rank-Deficient Solutions for Optimal Signaling Over Wiretap MIMO Channels. <i>IEEE Transactions on Communications</i> , 2016 , 64, 2400-2411	6.9	8
72	Optimization of directed information and relations to filtering theory 2014 ,		7
71	Discrete-Time Risk-Sensitive Filters with Non-Gaussian Initial Conditions and Their Ergodic Properties. <i>Asian Journal of Control</i> , 2008 , 3, 262-271	1.7	7
70	Centralized Versus Decentralized Optimization of Distributed Stochastic Differential Decision Systems With Different Information Structures-Part I: A General Theory. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1194-1209	5.9	6
69	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 7095-7115	2.8	6
68	Capacity of Binary State Symmetric Channel with and without feedback and transmission cost 2015 ,		6
67	. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 6623-6634	2.8	6
66	Directed information on abstract spaces: Properties and extremum problems 2012 ,		6

65	Nonlinear Estimation for a Class of Systems. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 1930-1938	8.8	6
64	New explicit filters and smoothers for diffusions with nonlinear drift and measurements. <i>Systems and Control Letters</i> , 1998 , 33, 89-103	2.4	6
63	Optimization of stochastic uncertain systems with variational norm constraints 2007 ,		6
62	Information Structures for Feedback Capacity of Channels With Memory and Transmission Cost: Stochastic Optimal Control and Variational Equalities. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 4962-4992	2.8	5
61	Decentralized optimality conditions of stochastic differential decision problems via Girsanov's measure transformation. <i>Mathematics of Control, Signals, and Systems</i> , 2016 , 28, 1	1.3	5
60	Noncoherent Energy Detection With Orthogonal Signaling for an Uncoded Two-Way Relay Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 404-409	6.8	5
59	Nonanticipative transmission for sources and channels with memory 2015 ,		5
58	Rank-deficient solutions for optimal signaling over secure MIMO channels 2014 ,		5
57	Information Theoretic Bounds for Compound MIMO Gaussian Channels. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 1603-1617	2.8	5
56	. <i>IEEE Transactions on Information Theory</i> , 2016 , 62, 3971-3991	2.8	4
55	An upper bound to zero-delay rate distortion via Kalman filtering for vector Gaussian sources 2017 ,		4
54	Applications of information Nonanticipative Rate Distortion Function 2014 ,		4
53	Variational equalities of directed information and applications 2013 ,		4
52	. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 3725-3734	2.8	4
51	Optimal encoder and control strategies in stochastic control subject to rate constraints for channels with memory and feedback 2011 ,		4
50	Information Nonanticipative Rate Distortion Function and Its Applications. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 317-324	0.5	4
49	Optimal Control of Uncertain Stochastic Systems Subject to Total Variation Distance Uncertainty. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 2683-2725	1.9	3
48	Distributed Stochastic Power Control for Time-Varying Long-Term and Short-Term Fading Wireless Networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3

47	On the application of minimum principle for solving partially observable risk-sensitive control problems. <i>Systems and Control Letters</i> , 1996 , 27, 169-179	2.4	3
46	Structural Properties of Nonanticipatory Epsilon Entropy of Multivariate Gaussian Sources 2020 ,		3
45	Robust Linear Quadratic Regulator for uncertain systems 2016 ,		3
44	Team Optimality Conditions of Distributed Stochastic Differential Decision Systems With Decentralized Noisy Information Structures. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 708-723	5.9	2
43	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1030-1045	5.9	2
42	Information Transfer of Control Strategies: Dualities of Stochastic Optimal Control Theory and Feedback Capacity of Information Theory. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5010-5025	5.9	2
41	Feedback does not increase the capacity of compound channels with additive noise 2016 ,		2
40	Infinite horizon average cost dynamic programming subject to ambiguity on conditional distribution 2015 ,		2
39	Dynamic team optimality conditions of distributed stochastic differential decision systems with decentralized noisy information structures 2013 ,		2
38	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2011 , 19, 397-410	2.6	2
37	Stochastic optimal control of discrete-time systems subject to conditional distribution uncertainty 2011 ,		2
36	Optimal control of a two-wheeled mobile robot via finite capacity communication channel 2008 ,		2
35	Information Capacity of MIMO Channels with Relative Entropy Constraint 2006 ,		2
34	Directed Information on Abstract Spaces: Properties and Extremum Problems. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 307-315	0.5	2
33	Asymptotic Reverse-Waterfilling Characterization of Nonanticipative Rate Distortion Function of Vector-Valued Gauss-Markov Processes with MSE Distortion 2018 ,		2
32	. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 6384-6418	2.8	2
31	Ergodic Control-Coding Capacity of Stochastic Control Systems: Information Signalling and Hierarchical Optimality of Gaussian Systems. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 104-135	1.9	1
30	Equivalence of decentralized stochastic dynamic decision systems via Girsanov's measure transformation 2014 ,		1

29	Approximation of Markov processes by lower dimensional processes 2014 ,		1
28	Ergodic capacity under channel distribution uncertainty 2014 ,		1
27	Mutual Information Expansion for MIMO Systems and Capacity Formulae at Low SNR. <i>IEEE Communications Letters</i> , 2011 , 15, 329-331	3.8	1
26	2010 ,		1
25	Capacity of channels with memory and feedback: Encoder properties and dynamic programming 2010 ,		1
24	On the capacity of a class of MIMO channels subject to normed uncertainty 2008 ,		1
23	Statistical Analysis of Multipath Fading Channels Using Generalizations of Shot Noise. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2008 , 2008,	3.2	1
22	Least-square estimation for nonlinear systems with applications to phase and envelope estimation in wireless fading channels 2008 ,		1
21	Control of Jump Linear Systems Over Jump Communication Channels - Source-Channel Matching Approach 2007 ,		1
20	Supervisory and Notification Aggregator Service Enabler in a Fixed Mobile Convergent Architecture 2007 ,		1
19	Robust control of a class of feedback systems subject to limited capacity constraints 2007 ,		1
18	Necessary Conditions of Optimization for Partially Observed Controlled Diffusions. <i>SIAM Journal on Control and Optimization</i> , 1999 , 37, 1676-1700	1.9	1
17	Nonanticipative Duality of Sources and Channels with Memory and Feedback. <i>Lecture Notes in Control and Information Sciences</i> , 2015 , 325-335	0.5	1
16	Characterization of Conditional Independence and Weak Realizations of Multivariate Gaussian Random Variables: Applications to Networks 2020 ,		1
15	Robust LQG for Markov Jump Linear Systems 2019 ,		1
14	Generalizations of Nonanticipative Rate Distortion Function to Multivariate Nonstationary Gaussian Autoregressive Processes 2019 ,		1
13	Centralized Versus Decentralized Optimization of Distributed Stochastic Differential Decision Systems With Different Information Structures Part II: Applications. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1913-1928	5.9	0
12	. <i>IEEE Transactions on Information Theory</i> , 2021 , 1-1	2.8	0

- 11 Jump LQR Systems With Unknown Transition Probabilities. *IEEE Transactions on Automatic Control*, **2021**, 66, 2693-2708 5.9 0
- 10 . *IEEE Transactions on Information Theory*, **2014**, 60, 5486-5499 2.8
- 9 Stochastic Optimal Control Subject to Ambiguity. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 4459-4464
- 8 Optimal Encoders Maximizing Directed Information of Channels with Memory and Feedback: Stochastic Control and Dynamic Programming. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 6598-6603
- 7 Optimization of stochastic uncertain systems: Entropy rate functionals, minimax games and robustness. *Advances in Statistics, Probability and Actuarial Science*, **2012**, 465-502
- 6 Quadratic forms for Feynman-Kac semigroups. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 353, 446-451 2.3
- 5 Is robustness of stochastic uncertain systems related to information theory and statistical mechanics? (Keynote Address) **2005**, 5847, 88
- 4 Fault Monitoring of Control Systems with Abrupt Changes. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 1023-1028
- 3 Lie algebraic methods in optimal control of stochastic systems with exponential-of-integral cost. *Systems and Control Letters*, **1999**, 37, 93-105 2.4
- 2 Canonical Dynamic Programming Equations subject to Ambiguity. *IFAC-PapersOnLine*, **2020**, 53, 7166-7171
- 1 On Shannon's Duality of a Source and a Channel and Nonanticipative Communication and Communication for Control. *Lecture Notes in Control and Information Sciences*, **2015**, 291-305 0.5