

# Charalambos D

## 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.

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	. <i>IEEE Transactions on Information Theory</i> , <b>2021</b> , 1-1	2.8	0
99	Jump LQR Systems With Unknown Transition Probabilities. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 2693-2708	5.9	0
98	Ergodic Control-Coding Capacity of Stochastic Control Systems: Information Signalling and Hierarchical Optimality of Gaussian Systems. <i>SIAM Journal on Control and Optimization</i> , <b>2020</b> , 58, 104-135 <sup>1.9</sup>	1.9	1
97	Canonical Dynamic Programming Equations subject to Ambiguity. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 7166-7171	7.1	1
96	Characterization of Conditional Independence and Weak Realizations of Multivariate Gaussian Random Variables: Applications to Networks <b>2020</b> ,		1
95	Structural Properties of Nonanticipatory Epsilon Entropy of Multivariate Gaussian Sources <b>2020</b> ,		3
94	Infinite Horizon Average Cost Dynamic Programming Subject to Total Variation Distance Ambiguity. <i>SIAM Journal on Control and Optimization</i> , <b>2019</b> , 57, 2843-2872	1.9	8
93	Robust LQG for Markov Jump Linear Systems <b>2019</b> ,		1
92	Generalizations of Nonanticipative Rate Distortion Function to Multivariate Nonstationary Gaussian Autoregressive Processes <b>2019</b> ,		1
91	Finite-Time Nonanticipative Rate Distortion Function for Time-Varying Scalar-Valued Gauss-Markov Sources <b>2018</b> , 2, 175-180		12
90	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> , <b>2018</b> , 64, 4962-4992	2.8	5
89	Centralized Versus Decentralized Optimization of Distributed Stochastic Differential Decision Systems With Different Information Structures Part II: Applications. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 1913-1928	5.9	0
88	Asymptotic Reverse-Waterfilling Characterization of Nonanticipative Rate Distortion Function of Vector-Valued Gauss-Markov Processes with MSE Distortion <b>2018</b> ,		2
87	Optimal Estimation via Nonanticipative Rate Distortion Function and Applications to Time-Varying Gauss-Markov Processes. <i>SIAM Journal on Control and Optimization</i> , <b>2018</b> , 56, 3731-3765	1.9	12
86	Zero-Delay Rate Distortion via Filtering for Vector-Valued Gaussian Sources. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2018</b> , 12, 841-856	7.5	18
85	. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 6384-6418	2.8	2
84	Team Optimality Conditions of Distributed Stochastic Differential Decision Systems With Decentralized Noisy Information Structures. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 708-723	5.9	2

83	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1030-1045	5.9	2
82	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> , <b>2017</b> , 62, 1194-1209	5.9	6
81	Information Transfer of Control Strategies: Dualities of Stochastic Optimal Control Theory and Feedback Capacity of Information Theory. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5010-5025	5.9	2
80	. <i>IEEE Transactions on Information Theory</i> , <b>2017</b> , 63, 7095-7115	2.8	6
79	An upper bound to zero-delay rate distortion via Kalman filtering for vector Gaussian sources <b>2017</b> ,		4
78	Decentralized optimality conditions of stochastic differential decision problems via Girsanov measure transformation. <i>Mathematics of Control, Signals, and Systems</i> , <b>2016</b> , 28, 1	1.3	5
77	Feedback does not increase the capacity of compound channels with additive noise <b>2016</b> ,		2
76	. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 7207-7215	2.8	23
75	Directed Information on Abstract Spaces: Properties and Variational Equalities. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 6019-6052	2.8	19
74	. <i>IEEE Transactions on Information Theory</i> , <b>2016</b> , 62, 3971-3991	2.8	4
73	Filtering with fidelity for time-varying Gauss-Markov processes <b>2016</b> ,		9
72	Robust Linear Quadratic Regulator for uncertain systems <b>2016</b> ,		3
71	Rank-Deficient Solutions for Optimal Signaling Over Wiretap MIMO Channels. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 2400-2411	6.9	8
70	. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 2288-2299	6.9	26
69	Dynamic Programming Subject to Total Variation Distance Ambiguity. <i>SIAM Journal on Control and Optimization</i> , <b>2015</b> , 53, 2040-2075	1.9	11
68	Nonanticipative transmission for sources and channels with memory <b>2015</b> ,		5
67	Capacity of Binary State Symmetric Channel with and without feedback and transmission cost <b>2015</b> ,		6
66	Infinite horizon average cost dynamic programming subject to ambiguity on conditional distribution <b>2015</b> ,		2

65	. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 6623-6634	2.8	6
64	Information Nonanticipative Rate Distortion Function and Its Applications. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 317-324	0.5	4
63	On Shannon's Duality of a Source and a Channel and Nonanticipative Communication and Communication for Control. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 291-305	0.5	
62	Directed Information on Abstract Spaces: Properties and Extremum Problems. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 307-315	0.5	2
61	Nonanticipative Duality of Sources and Channels with Memory and Feedback. <i>Lecture Notes in Control and Information Sciences</i> , <b>2015</b> , 325-335	0.5	1
60	Nonanticipative Rate Distortion Function and Relations to Filtering Theory. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 937-952	5.9	29
59	. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2353-2368	5.9	13
58	. <i>IEEE Transactions on Information Theory</i> , <b>2014</b> , 60, 5486-5499	2.8	
57	Equivalence of decentralized stochastic dynamic decision systems via Girsanov's measure transformation <b>2014</b> ,		1
56	Approximation of Markov processes by lower dimensional processes <b>2014</b> ,		1
55	Applications of information Nonanticipative Rate Distortion Function <b>2014</b> ,		4
54	Ergodic capacity under channel distribution uncertainty <b>2014</b> ,		1
53	Optimization of directed information and relations to filtering theory <b>2014</b> ,		7
52	Rank-deficient solutions for optimal signaling over secure MIMO channels <b>2014</b> ,		5
51	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> , <b>2013</b> , 51, 3235-3257	1.9	16
50	Further results on optimal signaling over secure MIMO channels <b>2013</b> ,		10
49	Variational equalities of directed information and applications <b>2013</b> ,		4
48	Dynamic team optimality conditions of distributed stochastic differential decision systems with decentralized noisy information structures <b>2013</b> ,		2

47	Noncoherent Energy Detection With Orthogonal Signaling for an Uncoded Two-Way Relay Channel. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 404-409	6.8	5
46	. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 2048-2063	2.8	25
45	On optimal signaling over secure MIMO channels <b>2012</b> ,		28
44	Directed information on abstract spaces: Properties and extremum problems <b>2012</b> ,		6
43	. <i>IEEE Transactions on Information Theory</i> , <b>2012</b> , 58, 6825-6838	2.8	15
42	Optimal Control of Uncertain Stochastic Systems Subject to Total Variation Distance Uncertainty. <i>SIAM Journal on Control and Optimization</i> , <b>2012</b> , 50, 2683-2725	1.9	3
41	Optimization of stochastic uncertain systems: Entropy rate functionals, minimax games and robustness. <i>Advances in Statistics, Probability and Actuarial Science</i> , <b>2012</b> , 465-502		
40	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2011</b> , 19, 397-410	2.6	2
39	Mutual Information Expansion for MIMO Systems and Capacity Formulae at Low SNR. <i>IEEE Communications Letters</i> , <b>2011</b> , 15, 329-331	3.8	1
38	Stochastic Optimal Control Subject to Ambiguity. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 4459-4464		
37	Optimal Encoders Maximizing Directed Information of Channels with Memory and Feedback: Stochastic Control and Dynamic Programming. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 6598-6603		
36	Optimal Filtering Over Uncertain Wireless Communication Channels. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 359-362	3.2	9
35	Stochastic optimal control of discrete-time systems subject to conditional distribution uncertainty <b>2011</b> ,		2
34	Optimal encoder and control strategies in stochastic control subject to rate constraints for channels with memory and feedback <b>2011</b> ,		4
33	<b>2010</b> ,		1
32	Capacity of channels with memory and feedback: Encoder properties and dynamic programming <b>2010</b> ,		1
31	Stability and reliable data reconstruction of uncertain dynamic systems over finite capacity channels. <i>Automatica</i> , <b>2010</b> , 46, 889-896	5.7	12
30	Information Theoretic Bounds for Compound MIMO Gaussian Channels. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 1603-1617	2.8	5

29	Nonlinear Estimation for a Class of Systems. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 1930-1938	8.8	6
28	. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 3725-3734	2.8	4
27	Stochastic differential equations for modeling, estimation and identification of mobile-to-mobile communication channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 1754-1763	9.6	15
26	Discrete-Time Risk-Sensitive Filters with Non-Gaussian Initial Conditions and Their Ergodic Properties. <i>Asian Journal of Control</i> , <b>2008</b> , 3, 262-271	1.7	7
25	Optimal control of a two-wheeled mobile robot via finite capacity communication channel <b>2008</b> ,		2
24	. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1013-1019	5.9	27
23	On the capacity of a class of MIMO channels subject to normed uncertainty <b>2008</b> ,		1
22	Statistical Analysis of Multipath Fading Channels Using Generalizations of Shot Noise. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2008</b> , 2008,	3.2	1
21	Least-square estimation for nonlinear systems with applications to phase and envelope estimation in wireless fading channels <b>2008</b> ,		1
20	LQG optimality and separation principle for general discrete time partially observed stochastic systems over finite capacity communication channels. <i>Automatica</i> , <b>2008</b> , 44, 3181-3188	5.7	49
19	Robust coding for a class of sources: Applications in control and reliable communication over limited capacity channels. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 1005-1012	2.4	9
18	Stochastic Uncertain Systems Subject to Relative Entropy Constraints: Induced Norms and Monotonicity Properties of Minimax Games. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 647-663	5.9	35
17	Control of Jump Linear Systems Over Jump Communication Channels - Source-Channel Matching Approach <b>2007</b> ,		1
16	Supervisory and Notification Aggregator Service Enabler in a Fixed Mobile Convergent Architecture <b>2007</b> ,		1
15	Distributed Stochastic Power Control for Time-Varying Long-Term and Short-Term Fading Wireless Networks. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
14	Robust control of a class of feedback systems subject to limited capacity constraints <b>2007</b> ,		1
13	Optimization of stochastic uncertain systems with variational norm constraints <b>2007</b> ,		6
12	Information Capacity of MIMO Channels with Relative Entropy Constraint <b>2006</b> ,		2

11	Stochastic Power Control for Time-Varying Long-Term Fading Wireless Networks. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2006</b> , 2006, 1	1.9	19
10	Quadratic forms for Feynman-Kac semigroups. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 353, 446-451	2.3	
9	Is robustness of stochastic uncertain systems related to information theory and statistical mechanics? (Keynote Address) <b>2005</b> , 5847, 88		
8	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> , <b>2004</b> , 20, 6458-69	4	20
7	Fault Monitoring of Control Systems with Abrupt Changes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 1023-1028		
6	Lie algebraic methods in optimal control of stochastic systems with exponential-of-integral cost. <i>Systems and Control Letters</i> , <b>1999</b> , 37, 93-105	2.4	
5	Necessary Conditions of Optimization for Partially Observed Controlled Diffusions. <i>SIAM Journal on Control and Optimization</i> , <b>1999</b> , 37, 1676-1700	1.9	1
4	New explicit filters and smoothers for diffusions with nonlinear drift and measurements. <i>Systems and Control Letters</i> , <b>1998</b> , 33, 89-103	2.4	6
3	Classes of Nonlinear Partially Observable Stochastic Optimal Control Problems with Explicit Optimal Control Laws. <i>SIAM Journal on Control and Optimization</i> , <b>1998</b> , 36, 542-578	1.9	23
2	On the application of minimum principle for solving partially observable risk-sensitive control problems. <i>Systems and Control Letters</i> , <b>1996</b> , 27, 169-179	2.4	3
1	Minimum principle for partially observable nonlinear risk-sensitive control problems using measure-valued decompositions. <i>Stochastic and Stochastics Reports</i> , <b>1996</b> , 57, 247-288		32