

Sanjay Lall

List of Publications by Year in descending order

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50
papers

1,517
citations

516215

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713013

21
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50
docs citations

50
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Based Approach to Household Electric Load Curve Clustering and Prediction. IEEE Transactions on Smart Grid, 2018, 9, 5196-5206.	6.2	118
2	Sufficient Statistics for Optimal Decentralized Control in System of Systems. , 2018, , .		0
3	Convexity of Decentralized Controller Synthesis. IEEE Transactions on Automatic Control, 2016, 61, 3122-3127.	3.6	28
4	Weak sufficient statistics for team decision problems. , 2015, , .		1
5	Optimal Control of Two-Player Systems With Output Feedback. IEEE Transactions on Automatic Control, 2015, 60, 2129-2144.	3.6	32
6	Stability Analysis of Distributed Power Generation With Droop Inverters. IEEE Transactions on Power Systems, 2015, 30, 3295-3303.	4.6	22
7	Explicit Solutions to Separable Problems in Optimal Cooperative Control. IEEE Transactions on Automatic Control, 2015, 60, 1304-1319.	3.6	13
8	An Algebraic Approach to the Control of Decentralized Systems. IEEE Transactions on Control of Network Systems, 2014, 1, 308-317.	2.4	12
9	A theory of sufficient statistics for teams. , 2014, , .		5
10	Sufficient statistics for multi-agent decision problems. , 2014, , .		3
11	Optimal Controller Synthesis for Decentralized Systems Over Graphs via Spectral Factorization. IEEE Transactions on Automatic Control, 2014, 59, 2311-2323.	3.6	19
12	Dynamical and Voltage Profile Stability of Inverter-Connected Distributed Power Generation. IEEE Transactions on Smart Grid, 2014, 5, 2093-2105.	6.2	19
13	Polynomial Level-Set Method for Polynomial System Reachable Set Estimation. IEEE Transactions on Automatic Control, 2013, 58, 2508-2521.	3.6	24
14	Separable optimal cooperative control problems. , 2012, , .		0
15	Optimal cooperative control of dynamically decoupled systems. , 2012, , .		2
16	Optimal controller synthesis for the decentralized two-player problem with output feedback. , 2012, , .		58
17	Frequency stability for distributed generation connected through grid-tie inverter. , 2012, , .		3
18	Networked Markov Decision Processes With Delays. IEEE Transactions on Automatic Control, 2012, 57, 1013-1018.	3.6	20

#	ARTICLE	IF	CITATIONS
19	Polynomial level-set method for attractor estimation. Journal of the Franklin Institute, 2012, 349, 2783-2798.	1.9	6
20	Optimal controller synthesis for a decentralized two-player system with partial output feedback. , 2011, , .		16
21	A state-space solution to the two-player decentralized optimal control problem. , 2011, , .		40
22	Coding strategies for a class of decentralized control problems with limited communication. , 2011, , .		0
23	Synthesis for optimal two-player decentralized control over TCP erasure channels with state feedback. , 2011, , .		3
24	Decentralized robust control via quadratically invariant model projection. , 2011, , .		0
25	An explicit solution for optimal two-player decentralized control over TCP erasure channels with state feedback. , 2011, , .		5
26	A unifying condition for separable two player optimal control problems. , 2011, , .		8
27	Polynomial Method for PLL Controller Optimization. Sensors, 2011, 11, 6575-6592.	2.1	14
28	Convexity of optimal control over networks with delays and arbitrary topology. International Journal of Systems, Control and Communications, 2010, 2, 30.	0.2	47
29	Hat guessing games and the use of coding for decentralized control. , 2010, , .		1
30	A dynamic programming algorithm for decentralized Markov decision processes with a broadcast structure. , 2010, , .		15
31	Optimal synthesis and explicit state-space solution for a decentralized two-player linear-quadratic regulator. , 2010, , .		25
32	An algebraic framework for quadratic invariance. , 2010, , .		5
33	An approximate dynamic programming approach to the Dynamic Traveling Repairperson Problem. , 2010, , .		0
34	Optimal decentralized control of linear systems via Groebner bases and variable elimination. , 2010, , .		3
35	A computational approach for decentralized control of turbine engines. , 2010, , .		4
36	Fast Algorithms for Resource Allocation in Wireless Cellular Networks. IEEE/ACM Transactions on Networking, 2010, 18, 973-984.	2.6	63

#	ARTICLE	IF	CITATIONS
37	Internal quadratic invariance and decentralized control. , 2010, , .		10
38	An explicit state-space solution for a decentralized two-player optimal linear-quadratic regulator. , 2010, , .		25
39	Decentralized team decision via coding. , 2009, , .		2
40	A graph-theoretic approach to distributed control over networks. , 2009, , .		21
41	Spectral factorization of non-classical information structures under feedback. , 2009, , .		3
42	Reduction of decentralized control problems to tractable representations. , 2009, , .		9
43	Structured semidefinite programs for the control of symmetric systems. Automatica, 2008, 44, 1411-1417.	3.0	28
44	Nonlinear Phase-Locked Loop design using semidefinite programming. , 2008, , .		5
45	Constructing Lyapunov Functions for nonlinear delay-differential equations using semidefinite programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1235-1239.	0.4	5
46	Structure-preserving model reduction for mechanical systems. Physica D: Nonlinear Phenomena, 2003, 184, 304-318.	1.3	118
47	Semidefinite Programming Relaxations and Algebraic Optimization in Control. European Journal of Control, 2003, 9, 307-321.	1.6	98
48	A subspace approach to balanced truncation for model reduction of nonlinear control systems. International Journal of Robust and Nonlinear Control, 2002, 12, 519-535.	2.1	407
49	An LMI solution to the robust synthesis problem for multi-rate sampled-data systems. Automatica, 2001, 37, 1909-1922.	3.0	116
50	Asynchronous hybrid systems with jumps "analysis and synthesis methods. Systems and Control Letters, 1999, 37, 61-69.	1.3	36