

Makan Fardad

List of Publications by Year in descending order

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42
papers

1,540
citations

840776

11
h-index

1125743

13
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42
all docs

42
docs citations

42
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	StructADMM: Achieving Ultrahigh Efficiency in Structured Pruning for DNNs. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2259-2273.	11.3	12
2	On the Optimal Interdiction of Transportation Networks. , 2020, , .		0
3	A Memristor-Based Optimization Framework for Artificial Intelligence Applications. IEEE Circuits and Systems Magazine, 2018, 18, 29-44.	2.3	42
4	On the Induction of Cascading Failures in Transportation Networks. , 2018, , .		3
5	On Optimality of Sparse Long-Range Links in Circulant Consensus Networks. IEEE Transactions on Automatic Control, 2017, 62, 4050-4057.	5.7	0
6	On a linear programming approach to the optimal seeding of cascading failures. , 2017, , .		3
7	Sensor Selection for Estimation with Correlated Measurement Noise. IEEE Transactions on Signal Processing, 2016, 64, 3509-3522.	5.3	140
8	Optimal energy allocation and storage control for distributed estimation with sensor collaboration. , 2016, , .		7
9	Optimized Sensor Collaboration for Estimation of Temporally Correlated Parameters. IEEE Transactions on Signal Processing, 2016, 64, 6613-6626.	5.3	24
10	On the optimality of sparse long-range links in circulant consensus networks. , 2015, , .		5
11	On optimal sensor collaboration for distributed estimation with individual power constraints. , 2015, , .		2
12	On consensus-based community detection. , 2015, , .		0
13	On the properties of optimal weak links in consensus networks. , 2014, , .		4
14	On optimal sensor collaboration topologies for linear coherent estimation. , 2014, , .		8
15	Sparsity-aware field estimation via ordinary Kriging. , 2014, , .		20
16	Algorithms for Leader Selection in Stochastically Forced Consensus Networks. IEEE Transactions on Automatic Control, 2014, 59, 1789-1802.	5.7	106
17	Energy-Aware Sensor Selection in Field Reconstruction. IEEE Signal Processing Letters, 2014, 21, 1476-1480.	3.6	35
18	Optimal Periodic Sensor Scheduling in Networks of Dynamical Systems. IEEE Transactions on Signal Processing, 2014, 62, 3055-3068.	5.3	79

#	ARTICLE	IF	CITATIONS
19	Design of Optimal Sparse Interconnection Graphs for Synchronization of Oscillator Networks. IEEE Transactions on Automatic Control, 2014, 59, 2457-2462.	5.7	74
20	Design of Optimal Sparse Feedback Gains via the Alternating Direction Method of Multipliers. IEEE Transactions on Automatic Control, 2013, 58, 2426-2431.	5.7	351
21	On new characterizations of social influence in social networks. , 2013, , .		6
22	On optimal periodic sensor scheduling for field estimation in wireless sensor networks. , 2013, , .		3
23	Sparse feedback synthesis via the alternating direction method of multipliers. , 2012, , .		25
24	Performance of leader-follower networks in directed trees and lattices. , 2012, , .		7
25	On the optimal synchronization of oscillator networks via sparse interconnection graphs. , 2012, , .		8
26	On the optimal dissemination of information in social networks. , 2012, , .		14
27	Identification of sparse communication graphs in consensus networks. , 2012, , .		20
28	Optimal Control of Vehicular Formations With Nearest Neighbor Interactions. IEEE Transactions on Automatic Control, 2012, 57, 2203-2218.	5.7	150
29	Augmented Lagrangian Approach to Design of Structured Optimal State Feedback Gains. IEEE Transactions on Automatic Control, 2011, 56, 2923-2929.	5.7	146
30	Sparsity-promoting optimal control for a class of distributed systems. , 2011, , .		94
31	Algorithms for leader selection in large dynamical networks: Noise-free leaders. , 2011, , .		42
32	On the optimal localized feedback design for multi-vehicle systems. , 2010, , .		3
33	On the optimal localized feedback design for vehicular platoons. , 2010, , .		1
34	On the dual decomposition of linear quadratic optimal control problems for vehicular formations. , 2010, , .		5
35	On the optimal design of structured feedback gains for interconnected systems. , 2009, , .		42
36	Synthesis of $H_{\infty 2}$ optimal static structured controllers: Primal and dual formulations. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	Damping mechanisms in dynamic mode atomic force microscopy applications. , 2009, , .		6
38	The operator algebra of almost Toeplitz matrices and the optimal control of large-scale systems. , 2009, , .		5
39	A Necessary and Sufficient Frequency Domain Criterion for the Passivity of SISO Sampled-Data Systems. IEEE Transactions on Automatic Control, 2009, 54, 611-614.	5.7	7
40	Frequency Analysis and Norms of Distributed Spatially Periodic Systems. IEEE Transactions on Automatic Control, 2008, 53, 2266-2279.	5.7	26
41	On the state-space design of optimal controllers for distributed systems with finite communication speed. , 2008, , .		6
42	Connection between almost everywhere stability of an ODE and advection PDE. , 2007, , .		8