

Alex Olshevsky

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

3,019
citations

623734

14
h-index

996975

15
g-index

22
all docs

22
docs citations

22
times ranked

2076
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Optimization Over Time-Varying Directed Graphs. IEEE Transactions on Automatic Control, 2015, 60, 601-615.	5.7	728
2	Achieving Geometric Convergence for Distributed Optimization Over Time-Varying Graphs. SIAM Journal on Optimization, 2017, 27, 2597-2633.	2.0	538
3	Federated learning of predictive models from federated Electronic Health Records. International Journal of Medical Informatics, 2018, 112, 59-67.	3.3	492
4	On Distributed Averaging Algorithms and Quantization Effects. IEEE Transactions on Automatic Control, 2009, 54, 2506-2517.	5.7	416
5	Minimal Controllability Problems. IEEE Transactions on Control of Network Systems, 2014, 1, 249-258.	3.7	239
6	Distributed subgradient methods and quantization effects. , 2008, , .		110
7	On the Nonexistence of Quadratic Lyapunov Functions for Consensus Algorithms. IEEE Transactions on Automatic Control, 2008, 53, 2642-2645.	5.7	87
8	NP-hardness of deciding convexity of quartic polynomials and related problems. Mathematical Programming, 2013, 137, 453-476.	2.4	79
9	Nonuniform coverage control on the line. IEEE Transactions on Automatic Control, 2013, 58, 2743-2755.	5.7	51
10	Distributed Anonymous Discrete Function Computation. IEEE Transactions on Automatic Control, 2011, 56, 2276-2289.	5.7	45
11	Minimum input selection for structural controllability. , 2015, , .		45
12	Distributed resource allocation on dynamic networks in quadratic time. Systems and Control Letters, 2017, 99, 57-63.	2.3	40
13	On distributed averaging algorithms and quantization effects. , 2008, , .		28
14	Improved Convergence Rates for Distributed Resource Allocation. , 2018, , .		27
15	On (Non)Supermodularity of Average Control Energy. IEEE Transactions on Control of Network Systems, 2018, 5, 1177-1181.	3.7	24
16	On primitivity of sets of matrices. Automatica, 2015, 61, 80-88.	5.0	21
17	Asymptotic Network Independence in Distributed Stochastic Optimization for Machine Learning: Examining Distributed and Centralized Stochastic Gradient Descent. IEEE Signal Processing Magazine, 2020, 37, 114-122.	5.6	21
18	How to Decide Consensus? A Combinatorial Necessary and Sufficient Condition and a Proof that Consensus is Decidable but NP-Hard. SIAM Journal on Control and Optimization, 2014, 52, 2707-2726.	2.1	16

#	ARTICLE	IF	CITATIONS
19	Fast convergence of quantized consensus using Metropolis chains. , 2014, , .		8
20	On primitivity of sets of matrices. , 2013, , .		3
21	Robust Asynchronous Stochastic Gradient-Push: Asymptotically Optimal and Network-Independent Performance for Strongly Convex Functions. Journal of Machine Learning Research, 2020, 21, .	62.4	1
22	On the cost of deciding consensus. , 2012, , .		0