

# Alexander Olshevsky

## List of Publications by Year in descending order

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29  
papers

2,235  
citations

623699

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794568

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g-index

29  
all docs

29  
docs citations

29  
times ranked

1821  
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	Federated learning of predictive models from federated Electronic Health Records. International Journal of Medical Informatics, 2018, 112, 59-67.	3.3	492
3	Network Topology and Communication-Computation Tradeoffs in Decentralized Optimization. Proceedings of the IEEE, 2018, 106, 953-976.	21.3	258
4	Minimal Controllability Problems. IEEE Transactions on Control of Network Systems, 2014, 1, 249-258.	3.7	239
5	Fast Convergence Rates for Distributed Non-Bayesian Learning. IEEE Transactions on Automatic Control, 2017, 62, 5538-5553.	5.7	128
6	Convergence Speed in Distributed Consensus and Averaging. SIAM Review, 2011, 53, 747-772.	8.4	113
7	Minimum input selection for structural controllability. , 2015, , .		45
8	Distributed optimization over time-varying directed graphs. , 2013, , .		36
9	On (Non)Supermodularity of Average Control Energy. IEEE Transactions on Control of Network Systems, 2018, 5, 1177-1181.	3.7	24
10	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
11	Deterministic and Randomized Actuator Scheduling With Guaranteed Performance Bounds. IEEE Transactions on Automatic Control, 2021, 66, 1686-1701.	5.7	20
12	Degree Fluctuations and the Convergence Time of Consensus Algorithms. IEEE Transactions on Automatic Control, 2013, 58, 2626-2631.	5.7	19
13	Nonuniform Line Coverage From Noisy Scalar Measurements. IEEE Transactions on Automatic Control, 2015, 60, 1975-1980.	5.7	18
14	Scaling Laws for Consensus Protocols Subject to Noise. IEEE Transactions on Automatic Control, 2019, 64, 1389-1402.	5.7	16
15	Convergence Time of Quantized Metropolis Consensus Over Time-Varying Networks. IEEE Transactions on Automatic Control, 2016, 61, 4048-4054.	5.7	14
16	Graph-Theoretic Analysis of Belief System Dynamics under Logic Constraints. Scientific Reports, 2019, 9, 8843.	3.3	14
17	A Sharp Estimate on the Transient Time of Distributed Stochastic Gradient Descent. IEEE Transactions on Automatic Control, 2022, 67, 5900-5915.	5.7	11
18	Distributed optimization of strongly convex functions on directed time-varying graphs. , 2013, , .		6

#	ARTICLE	IF	CITATIONS
19	Cooperative learning in multi-agent systems from intermittent measurements. , 2013, , .		6
20	Symmetric continuum opinion dynamics: Convergence, but sometimes only in distribution. , 2013, , .		5
21	Limitations and Tradeoffs in Minimum Input Selection Problems. , 2018, , .		4
22	Nonasymptotic Concentration Rates in Cooperative Learningâ€”Part II: Inference on Compact Hypothesis Sets. IEEE Transactions on Control of Network Systems, 2022, 9, 1141-1153.	3.7	4
23	On primitivity of sets of matrices. , 2013, , .		3
24	Minimal Reachability is Hard To Approximate. IEEE Transactions on Automatic Control, 2018, , 1-1.	5.7	3
25	On the Inapproximability of the Discrete Witsenhausen Problem. , 2019, 3, 529-534.		3
26	Nonasymptotic Concentration Rates in Cooperative Learningâ€”Part I: Variational Non-Bayesian Social Learning. IEEE Transactions on Control of Network Systems, 2022, 9, 1128-1140.	3.7	3
27	Consensus with ternary messages. , 2013, , .		1
28	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
29	Asymptotic Convergence Rate of Alternating Minimization for Rank One Matrix Completion. , 2021, 5, 1139-1144.		0