

# Meisam Razaviyayn

## List of Publications by Year in descending order

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34  
papers

4,281  
citations

758635

12  
h-index

940134

16  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2906  
citing authors

#	ARTICLE	IF	CITATIONS
1	CRAM-Seq: Accelerating RNA-Seq Abundance Quantification Using Computational RAM. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 2055-2071.	3.2	2
2	Learning Deep Models: Critical Points and Local Openness. INFORMS Journal on Optimization, 2022, 4, 148-173.	0.9	0
3	Robustness of Accelerated First-Order Algorithms for Strongly Convex Optimization Problems. IEEE Transactions on Automatic Control, 2021, 66, 2480-2495.	3.6	19
4	Linearized ADMM Converges to Second-Order Stationary Points for Non-Convex Problems. IEEE Transactions on Signal Processing, 2021, 69, 4859-4874.	3.2	6
5	Nonconvex Min-Max Optimization: Applications, Challenges, and Recent Theoretical Advances. IEEE Signal Processing Magazine, 2020, 37, 55-66.	4.6	39
6	Solving Non-Convex Non-Differentiable Min-Max Games Using Proximal Gradient Method. , 2020, , .		4
7	On the pervasiveness of difference-convexity in optimization and statistics. Mathematical Programming, 2019, 174, 195-222.	1.6	12
8	A linearly convergent doubly stochastic Gauss-Seidel algorithm for solving linear equations and a certain class of over-parameterized optimization problems. Mathematical Programming, 2019, 176, 465-496.	1.6	9
9	Performance of noisy Nesterov's accelerated method for strongly convex optimization problems. , 2019, , .		6
10	Variance Amplification of Accelerated First-Order Algorithms for Strongly Convex Quadratic Optimization Problems. , 2018, , .		8
11	On the stability of gradient flow dynamics for a rank-one matrix approximation problem. , 2018, , .		2
12	Inexact Block Coordinate Descent Methods for Symmetric Nonnegative Matrix Factorization. IEEE Transactions on Signal Processing, 2017, 65, 5995-6008.	3.2	22
13	A unified distributed algorithm for non-cooperative games. , 2016, , 101-134.		5
14	Convergence Analysis of Alternating Direction Method of Multipliers for a Family of Nonconvex Problems. SIAM Journal on Optimization, 2016, 26, 337-364.	1.2	493
15	A Unified Algorithmic Framework for Block-Structured Optimization Involving Big Data: With applications in machine learning and signal processing. IEEE Signal Processing Magazine, 2016, 33, 57-77.	4.6	312
16	Joint base station clustering and beamformer design for partial coordinated transmission using statistical channel state information. , 2014, , .		4
17	Dictionary learning for sparse representation: Complexity and algorithms. , 2014, , .		14
18	Optimal Joint Base Station Assignment and Beamforming for Heterogeneous Networks. IEEE Transactions on Signal Processing, 2014, 62, 1950-1961.	3.2	50

#	ARTICLE	IF	CITATIONS
19	Cross-Layer Provision of Future Cellular Networks: A WMMSE-based approach. IEEE Signal Processing Magazine, 2014, 31, 56-68.	4.6	30
20	A stochastic weighted MMSE approach to sum rate maximization for a MIMO interference channel. , 2013, , .		23
21	A Unified Convergence Analysis of Block Successive Minimization Methods for Nonsmooth Optimization. SIAM Journal on Optimization, 2013, 23, 1126-1153.	1.2	828
22	SINR constrained beamforming for a MIMO multi-user downlink system. , 2012, , .		3
23	Optimal joint base station assignment and downlink beamforming for heterogeneous networks. , 2012, , .		25
24	Joint transceiver design and base station clustering for heterogeneous networks. , 2012, , .		3
25	On the Degrees of Freedom Achievable Through Interference Alignment in a MIMO Interference Channel. IEEE Transactions on Signal Processing, 2012, 60, 812-821.	3.2	266
26	Linear Transceiver Design for Interference Alignment: Complexity and Computation. IEEE Transactions on Information Theory, 2012, 58, 2896-2910.	1.5	119
27	Power allocation in multi-channel cognitive radio networks with channel assembling. , 2011, , .		2
28	An Iteratively Weighted MMSE Approach to Distributed Sum-Utility Maximization for a MIMO Interfering Broadcast Channel. IEEE Transactions on Signal Processing, 2011, 59, 4331-4340.	3.2	1,290
29	A stackelberg game approach to distributed spectrum management. Mathematical Programming, 2011, 129, 197-224.	1.6	21
30	An iteratively weighted MMSE approach to distributed sum-utility maximization for a MIMO interfering broadcast channel. , 2011, , .		589
31	Linear transceiver design for a MIMO interfering broadcast channel achieving max-min fairness. , 2011, , .		22
32	A Stackelberg game approach to distributed spectrum management. , 2010, , .		31
33	Linear transceiver design for interference alignment: Complexity and computation. , 2010, , .		22
34	Zeroth-order algorithms for nonconvexâ€‘strongly-concave minimax problems with improved complexities. Journal of Global Optimization, 0, , 1.	1.1	0