# Meisam Razaviyayn

List of Publications by Year
in descending order

| 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 | 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 |
| 2 | A Unified Convergence Analysis of Block Successive Minimization Methods for Nonsmooth Optimization. SIAM Journal on Optimization, 2013, 23, 1126-1153. | 1.2 | 828 |
| 3 | An iteratively weighted MMSE approach to distributed sum-utility maximization for a MIMO interfering broadcast channel. , 2011, , . | | 589 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Linear Transceiver Design for Interference Alignment: Complexity and Computation. IEEE Transactions on Information Theory, 2012, 58, 2896-2910. | 1.5 | 119 |
| 8 | Optimal Joint Base Station Assignment and Beamforming for Heterogeneous Networks. IEEE Transactions on Signal Processing, 2014, 62, 1950-1961. | 3.2 | 50 |
| 9 | Nonconvex Min-Max Optimization: Applications, Challenges, and Recent Theoretical Advances. IEEE Signal Processing Magazine, 2020, 37, 55-66. | 4.6 | 39 |
| 10 | A Stackelberg game approach to distributed spectrum management. , 2010, , . | | 31 |
| 11 | Cross-Layer Provision of Future Cellular Networks: A WMMSE-based approach. IEEE Signal Processing Magazine, 2014, 31, 56-68. | 4.6 | 30 |
| 12 | Optimal joint base station assignment and downlink beamforming for heterogeneous networks. , 2012, , . | | 25 |
| 13 | A stochastic weighted MMSE approach to sum rate maximization for a MIMO interference channel. , 2013, , . | | 23 |
| 14 | Linear transceiver design for interference alignment: Complexity and computation. , 2010, , . | | 22 |
| 15 | Linear transceiver design for a MIMO interfering broadcast channel achieving max-min fairness. , 2011, , . | | 22 |
| 16 | Inexact Block Coordinate Descent Methods for Symmetric Nonnegative Matrix Factorization. IEEE Transactions on Signal Processing, 2017, 65, 5995-6008. | 3.2 | 22 |
| 17 | A stackelberg game approach to distributed spectrum management. Mathematical Programming, 2011, 129, 197-224. | 1.6 | 21 |
| 18 | Robustness of Accelerated First-Order Algorithms for Strongly Convex Optimization Problems. IEEE Transactions on Automatic Control, 2021, 66, 2480-2495. | 3.6 | 19 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Dictionary learning for sparse representation: Complexity and algorithms. , 2014, , . | | 14 |
| 20 | On the pervasiveness of difference-convexity in optimization and statistics. Mathematical Programming, 2019, 174, 195-222. | 1.6 | 12 |
| 21 | A linearly convergent doubly stochastic Gaussâ€"Seidel algorithm for solving linear equations and a certain class of over-parameterized optimization problems. Mathematical Programming, 2019, 176, 465-496. | 1.6 | 9 |
| 22 | Variance Amplification of Accelerated First-Order Algorithms for Strongly Convex Quadratic Optimization Problems. , 2018, , . | | 8 |
| 23 | Performance of noisy Nesterov's accelerated method for strongly convex optimization problems. , 2019, , . | | 6 |
| 24 | Linearized ADMM Converges to Second-Order Stationary Points for Non-Convex Problems. IEEE Transactions on Signal Processing, 2021, 69, 4859-4874. | 3.2 | 6 |
| 25 | A unified distributed algorithm for non-cooperative games. , 2016, , 101-134. | | 5 |
| 26 | Joint base station clustering and beamformer design for partial coordinated transmission using statistical channel state information. , 2014, , . | | 4 |
| 27 | Solving Non-Convex Non-Differentiable Min-Max Games Using Proximal Gradient Method. , 2020, , . | | 4 |
| 28 | SINR constrained beamforming for a MIMO multi-user downlink system. , 2012, , . | | 3 |
| 29 | Joint transceiver design and base station clustering for heterogeneous networks. , 2012, , . | | 3 |
| 30 | Power allocation in multi-channel cognitive radio networks with channel assembling. , 2011, , . | | 2 |
| 31 | On the stability of gradient flow dynamics for a rank-one matrix approximation problem. , 2018, , . | | 2 |
| 32 | CRAM-Seq: Accelerating RNA-Seq Abundance Quantification Using Computational RAM. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 2055-2071. | 3.2 | 2 |
| 33 | Learning Deep Models: Critical Points and Local Openness. INFORMS Journal on Optimization, 2022, 4, 148-173. | 0.9 | 0 |
| 34 | Zeroth-order algorithms for nonconvexâ€"strongly-concave minimax problems with improved complexities. Journal of Global Optimization, 0, , 1. | 1.1 | 0 |