# Ali H Sayed

## List of Publications by Citations

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|---|---|---|---|
| 388 papers | 17,638 citations | 62 h-index | 125 g-index |
| 436 ext. papers | 22,009 ext. citations | 4.4 avg, IF | 7.47 L-index |

| # | Paper | IF | Citations |
|---|-------|-----|-----------|
| 388 | Network-based wireless location: challenges faced in developing techniques for accurate wireless location information. *IEEE Signal Processing Magazine*, **2005**, 22, 24-40 | 9.4 | 803 |
| 387 | Diffusion LMS Strategies for Distributed Estimation. *IEEE Transactions on Signal Processing*, **2010**, 58, 1035-1048 | 4.8 | 769 |
| 386 | Optimal Linear Cooperation for Spectrum Sensing in Cognitive Radio Networks. *IEEE Journal on Selected Topics in Signal Processing*, **2008**, 2, 28-40 | 7.5 | 675 |
| 385 | Diffusion Least-Mean Squares Over Adaptive Networks: Formulation and Performance Analysis. *IEEE Transactions on Signal Processing*, **2008**, 56, 3122-3136 | 4.8 | 668 |
| 384 | **2008**, | | 533 |
| 383 | Diffusion Strategies for Distributed Kalman Filtering and Smoothing. *IEEE Transactions on Automatic Control*, **2010**, 55, 2069-2084 | 5.9 | 508 |
| 382 | A Leakage-Based Precoding Scheme for Downlink Multi-User MIMO Channels. *IEEE Transactions on Wireless Communications*, **2007**, 6, 1711-1721 | 9.6 | 468 |
| 381 | Optimal Multiband Joint Detection for Spectrum Sensing in Cognitive Radio Networks. *IEEE Transactions on Signal Processing*, **2009**, 57, 1128-1140 | 4.8 | 461 |
| 380 | Incremental Adaptive Strategies Over Distributed Networks. *IEEE Transactions on Signal Processing*, **2007**, 55, 4064-4077 | 4.8 | 451 |
| 379 | Diffusion recursive least-squares for distributed estimation over adaptive networks. *IEEE Transactions on Signal Processing*, **2008**, 56, 1865-1877 | 4.8 | 394 |
| 378 | . *IEEE Transactions on Signal Processing*, **2012**, 60, 4289-4305 | 4.8 | 359 |
| 377 | Adaptive Networks. *Proceedings of the IEEE*, **2014**, 102, 460-497 | 14.3 | 328 |
| 376 | Variable step-size NLMS and affine projection algorithms. *IEEE Signal Processing Letters*, **2004**, 11, 132-135 | 3.2 | 306 |
| 375 | Displacement Structure: Theory and Applications. *SIAM Review*, **1995**, 37, 297-386 | 7.4 | 291 |
| 374 | Diffusion strategies for adaptation and learning over networks: an examination of distributed strategies and network behavior. *IEEE Signal Processing Magazine*, **2013**, 30, 155-171 | 9.4 | 285 |
| 373 | Diffusion Strategies Outperform Consensus Strategies for Distributed Estimation Over Adaptive Networks. *IEEE Transactions on Signal Processing*, **2012**, 60, 6217-6234 | 4.8 | 272 |
| 372 | Mean-square performance of a convex combination of two adaptive filters. *IEEE Transactions on Signal Processing*, **2006**, 54, 1078-1090 | 4.8 | 244 |

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| 371 | Multi-input multi-output fading channel tracking and equalization using Kalman estimation. *IEEE Transactions on Signal Processing*, **2002**, 50, 1065-1076 | 4.8 | 239 |
| 370 | . *IEEE Transactions on Signal Processing*, **2010**, 58, 4795-4810 | 4.8 | 225 |
| 369 | Multiuser Two-Way Amplify-and-Forward Relay Processing and Power Control Methods for Beamforming Systems. *IEEE Transactions on Signal Processing*, **2010**, 58, 1833-1846 | 4.8 | 225 |
| 368 | Indefinite-Quadratic Estimation and Control **1999**, | | 224 |
| 367 | . *IEEE Signal Processing Magazine*, **2008**, 25, 60-73 | 9.4 | 211 |
| 366 | Compensation schemes and performance analysis of IQ imbalances in OFDM receivers. *IEEE Transactions on Signal Processing*, **2005**, 53, 3257-3268 | 4.8 | 202 |
| 365 | Mean-square performance of a family of affine projection algorithms. *IEEE Transactions on Signal Processing*, **2004**, 52, 90-102 | 4.8 | 202 |
| 364 | A framework for state-space estimation with uncertain models. *IEEE Transactions on Automatic Control*, **2001**, 46, 998-1013 | 5.9 | 198 |
| 363 | A unified approach to the steady-state and tracking analyses of adaptive filters. *IEEE Transactions on Signal Processing*, **2001**, 49, 314-324 | 4.8 | 186 |
| 362 | The finite-length multi-input multi-output MMSE-DFE. *IEEE Transactions on Signal Processing*, **2000**, 48, 2921-2936 | 4.8 | 176 |
| 361 | Multitask Diffusion Adaptation Over Networks. *IEEE Transactions on Signal Processing*, **2014**, 62, 4129-4144 | 4.8 | 166 |
| 360 | Diffusion Adaptation Over Networks. *Academic Press Library in Signal Processing*, **2014**, 3, 323-453 | | 151 |
| 359 | H/sup /spl infin// optimality of the LMS algorithm. *IEEE Transactions on Signal Processing*, **1996**, 44, 267-280 | 4.8 | 150 |
| 358 | Sparse Distributed Learning Based on Diffusion Adaptation. *IEEE Transactions on Signal Processing*, **2013**, 61, 1419-1433 | 4.8 | 143 |
| 357 | Parameter Estimation in the Presence of Bounded Data Uncertainties. *SIAM Journal on Matrix Analysis and Applications*, **1998**, 19, 235-252 | 1.5 | 141 |
| 356 | Linear estimation in Krein spaces. II. Applications. *IEEE Transactions on Automatic Control*, **1996**, 41, 34-49 | 5.9 | 138 |
| 355 | Diffusion LMS Over Multitask Networks. *IEEE Transactions on Signal Processing*, **2015**, 63, 2733-2748 | 4.8 | 133 |
| 354 | . *IEEE Transactions on Signal Processing*, **2011**, 59, 1917-1932 | 4.8 | 122 |

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| 353 | Distributed Estimation Over an Adaptive Incremental Network Based on the Affine Projection Algorithm. *IEEE Transactions on Signal Processing*, **2010**, 58, 151-164 | 4.8 | 121 |
| 352 | Mobile Adaptive Networks. *IEEE Journal on Selected Topics in Signal Processing*, **2011**, 5, 649-664 | 7.5 | 119 |
| 351 | Transient analysis of data-normalized adaptive filters. *IEEE Transactions on Signal Processing*, **2003**, 51, 639-652 | 4.8 | 119 |
| 350 | Active Antenna Selection in Multiuser MIMO Communications. *IEEE Transactions on Signal Processing*, **2007**, 55, 1498-1510 | 4.8 | 115 |
| 349 | Distributed Pareto Optimization via Diffusion Strategies. *IEEE Journal on Selected Topics in Signal Processing*, **2013**, 7, 205-220 | 7.5 | 114 |
| 348 | Cooperative Sensing via Sequential Detection. *IEEE Transactions on Signal Processing*, **2010**, 58, 6266-6283 | 4.8 | 109 |
| 347 | Diffusion Adaptation Over Networks Under Imperfect Information Exchange and Non-Stationary Data. *IEEE Transactions on Signal Processing*, **2012**, 60, 3460-3475 | 4.8 | 105 |
| 346 | . *IEEE Transactions on Signal Processing*, **2011**, 59, 1465-1480 | 4.8 | 104 |
| 345 | Modeling Bird Flight Formations Using Diffusion Adaptation. *IEEE Transactions on Signal Processing*, **2011**, 59, 2038-2051 | 4.8 | 102 |
| 344 | Distributed MMSE Relay Strategies for Wireless Sensor Networks. *IEEE Transactions on Signal Processing*, **2007**, 55, 3336-3348 | 4.8 | 96 |
| 343 | Coherent optical MIMO (COMIMO). *Journal of Lightwave Technology*, **2005**, 23, 2410-2419 | 4 | 96 |
| 342 | Performance Limits for Distributed Estimation Over LMS Adaptive Networks. *IEEE Transactions on Signal Processing*, **2012**, 60, 5107-5124 | 4.8 | 94 |
| 341 | MIMO OFDM receivers for Systems with IQ imbalances. *IEEE Transactions on Signal Processing*, **2005**, 53, 3583-3596 | 4.8 | 94 |
| 340 | A time-domain feedback analysis of filtered-error adaptive gradient algorithms. *IEEE Transactions on Signal Processing*, **1996**, 44, 1428-1439 | 4.8 | 89 |
| 339 | Optimal Linear Fusion for Distributed Detection Via Semidefinite Programming. *IEEE Transactions on Signal Processing*, **2010**, 58, 2431-2436 | 4.8 | 84 |
| 338 | Joint compensation of transmitter and receiver impairments in OFDM systems. *IEEE Transactions on Wireless Communications*, **2007**, 6, 240-247 | 9.6 | 84 |
| 337 | Compensation of Phase Noise in OFDM Wireless Systems. *IEEE Transactions on Signal Processing*, **2007**, 55, 5407-5424 | 4.8 | 80 |
| 336 | Adaptive Filters with Error Nonlinearities: Mean-Square Analysis and Optimum Design. *Eurasip Journal on Advances in Signal Processing*, **2001**, 2001, 192-205 | 1.9 | 75 |

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| 317 | Bio-Inspired Decentralized Radio Access Based on Swarming Mechanisms Over Adaptive Networks. *IEEE Transactions on Signal Processing*, **2013**, 61, 3183-3197 | 4.8 | 45 |
| 316 | An Optimal Strategy for Cooperative Spectrum Sensing in Cognitive Radio Networks **2007**, | | 45 |
| 315 | Multitask Diffusion Adaptation Over Asynchronous Networks. *IEEE Transactions on Signal Processing*, **2016**, 64, 2835-2850 | 4.8 | 44 |
| 314 | Clustering via diffusion adaptation over networks **2012**, | | 44 |
| 313 | Diffusion adaptive networks with changing topologies. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, **2008**, | 1.6 | 44 |
| 312 | Optimal Spectral Feature Detection for Spectrum Sensing at Very Low SNR. *IEEE Transactions on Communications*, **2011**, 59, 201-212 | 6.9 | 43 |
| 311 | A Stable and Efficient Algorithm for the Indefinite Linear Least-Squares Problem. *SIAM Journal on Matrix Analysis and Applications*, **1998**, 20, 354-362 | 1.5 | 43 |
| 310 | Error-energy bounds for adaptive gradient algorithms. *IEEE Transactions on Signal Processing*, **1996**, 44, 1982-1989 | 4.8 | 43 |
| 309 | Proximal Multitask Learning Over Networks With Sparsity-Inducing Coregularization. *IEEE Transactions on Signal Processing*, **2016**, 64, 6329-6344 | 4.8 | 42 |
| 308 | . *IEEE Transactions on Signal Processing*, **2016**, 64, 2851-2865 | 4.8 | 40 |
| 307 | Distributed Learning for Stochastic Generalized Nash Equilibrium Problems. *IEEE Transactions on Signal Processing*, **2017**, 65, 3893-3908 | 4.8 | 39 |
| 306 | Estimation of Space-Time Varying Parameters Using a Diffusion LMS Algorithm. *IEEE Transactions on Signal Processing*, **2014**, 62, 403-418 | 4.8 | 39 |
| 305 | Distributed Spectrum Estimation for Small Cell Networks Based on Sparse Diffusion Adaptation. *IEEE Signal Processing Letters*, **2013**, 20, 1261-1265 | 3.2 | 38 |
| 304 | Diffusion LMS for Multitask Problems With Local Linear Equality Constraints. *IEEE Transactions on Signal Processing*, **2017**, 65, 4979-4993 | 4.8 | 38 |
| 303 | Steady-State Performance Analysis of a Variable Tap-Length LMS Algorithm. *IEEE Transactions on Signal Processing*, **2008**, 56, 839-845 | 4.8 | 38 |
| 302 | Multiobjective filter design for uncertain stochastic time-delay systems. *IEEE Transactions on Automatic Control*, **2004**, 49, 149-154 | 5.9 | 37 |
| 301 | Adaptation, Learning, and Optimization over Networks **2014**, | | 37 |
| 300 | An Adaptive Diffusion Augmented CLMS Algorithm for Distributed Filtering of Noncircular Complex Signals. *IEEE Signal Processing Letters*, **2011**, 18, 659-662 | 3.2 | 36 |

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| 299 | Capacity enhancement in coherent optical MIMO (COMIMO) multimode fiber links. *IEEE Communications Letters*, **2006**, 10, 195-197 | 3.8 | 36 |
| 298 | Efficient adaptive receivers for joint equalization and interference cancellation in multiuser space-time block-coded systems. *IEEE Transactions on Signal Processing*, **2003**, 51, 2849-2862 | 4.8 | 36 |
| 297 | Exact Diffusion for Distributed Optimization and Learning—Part II: Convergence Analysis. *IEEE Transactions on Signal Processing*, **2019**, 67, 724-739 | 4.8 | 36 |
| 296 | Multitask Diffusion Adaptation Over Networks With Common Latent Representations. *IEEE Journal on Selected Topics in Signal Processing*, **2017**, 11, 563-579 | 7.5 | 34 |
| 295 | Estimation and control with bounded data uncertainties. *Linear Algebra and Its Applications*, **1998**, 284, 259-306 | 0.9 | 34 |
| 294 | Decentralized Consensus Optimization With Asynchrony and Delays. *IEEE Transactions on Signal and Information Processing Over Networks*, **2018**, 4, 293-307 | 2.8 | 34 |
| 293 | Joint compensation of IQ imbalance and phase noise in OFDM wireless systems. *IEEE Transactions on Communications*, **2009**, 57, 404-414 | 6.9 | 33 |
| 292 | A Fast Stable Solver for Nonsymmetric Toeplitz and Quasi-Toeplitz Systems of Linear Equations. *SIAM Journal on Matrix Analysis and Applications*, **1998**, 19, 107-139 | 1.5 | 33 |
| 291 | Time-domain feedback analysis of adaptive gradient algorithms via the small gain theorem **1995**, | | 33 |
| 290 | . *IEEE Transactions on Automatic Control*, **2015**, 60, 1260-1274 | 5.9 | 31 |
| 289 | Distributed Decision-Making Over Adaptive Networks. *IEEE Transactions on Signal Processing*, **2014**, 62, 1054-1069 | 4.8 | 31 |
| 288 | Mean-square performance of data-reusing adaptive algorithms. *IEEE Signal Processing Letters*, **2005**, 12, 851-854 | 3.2 | 31 |
| 287 | . *IEEE Transactions on Signal Processing*, **2017**, 65, 3909-3921 | 4.8 | 30 |
| 286 | Optimal combination rules for adaptation and learning over networks **2011**, | | 30 |
| 285 | User Selection Methods for Multiuser Two-Way Relay Communications Using Space Division Multiple Access. *IEEE Transactions on Wireless Communications*, **2010**, 9, 2130-2136 | 9.6 | 30 |
| 284 | Diffusion LMS for multitask problems with overlapping hypothesis subspaces **2014**, | | 29 |
| 283 | On the learning mechanism of adaptive filters. *IEEE Transactions on Signal Processing*, **2000**, 48, 1609-1625 | 5.8 | 29 |
| 282 | An embedding approach to frequency-domain and subband adaptive filtering. *IEEE Transactions on Signal Processing*, **2000**, 48, 2607-2619 | 4.8 | 29 |

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| 281 | Stabilizing the Generalized Schur Algorithm. *SIAM Journal on Matrix Analysis and Applications*, **1996**, 17, 950-983 | 1.5 | 29 |
| 280 | Distributed nonlinear Kalman filtering with applications to wireless localization **2010**, | | 28 |
| 279 | Digital Compensation of Cross-Modulation Distortion in Software-Defined Radios. *IEEE Journal on Selected Topics in Signal Processing*, **2009**, 3, 348-361 | 7.5 | 28 |
| 278 | Multitask Learning Over Graphs: An Approach for Distributed, Streaming Machine Learning. *IEEE Signal Processing Magazine*, **2020**, 37, 14-25 | 9.4 | 27 |
| 277 | Array algorithms for H/sup /spl infin// estimation. *IEEE Transactions on Automatic Control*, **2000**, 45, 702-706 | 3.9 | 27 |
| 276 | Robust FxLMS algorithms with improved convergence performance. *IEEE Transactions on Speech and Audio Processing*, **1998**, 6, 78-85 | | 27 |
| 275 | Variance-Reduced Stochastic Learning by Networked Agents Under Random Reshuffling. *IEEE Transactions on Signal Processing*, **2019**, 67, 351-366 | 4.8 | 27 |
| 274 | Recursive solutions of rational interpolation problems via fast matrix factorization. *Integral Equations and Operator Theory*, **1994**, 20, 84-118 | 0.5 | 26 |
| 273 | Social Learning Over Weakly Connected Graphs. *IEEE Transactions on Signal and Information Processing Over Networks*, **2017**, 3, 222-238 | 2.8 | 25 |
| 272 | Asynchronous Adaptation and Learning Over Networks Part II: Performance Analysis. *IEEE Transactions on Signal Processing*, **2015**, 63, 827-842 | 4.8 | 25 |
| 271 | Clock Jitter Compensation in High-Rate ADC Circuits. *IEEE Transactions on Signal Processing*, **2012**, 60, 5738-5753 | 4.8 | 25 |
| 270 | Modeling bee swarming behavior through diffusion adaptation with asymmetric information sharing. *Eurasip Journal on Advances in Signal Processing*, **2012**, 2012, | 1.9 | 24 |
| 269 | Multiuser two-way relaying method for beamforming systems **2009**, | | 24 |
| 268 | . *IEEE Signal Processing Letters*, **1997**, 4, 195-197 | 3.2 | 24 |
| 267 | Diffusion LMS algorithms with information exchange **2008**, | | 24 |
| 266 | A diffusion rls scheme for distributed estimation over adaptive networks **2007**, | | 24 |
| 265 | Performance Analysis of Multiband OFDM UWB Communications With Application to Range Improvement. *IEEE Transactions on Vehicular Technology*, **2007**, 56, 3864-3878 | 6.8 | 24 |
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| 263 | . *IEEE Transactions on Information Theory*, **2016**, 62, 4710-4732 | 2.8 | 24 |
| 262 | Diffusion distributed Kalman filtering with adaptive weights **2009**, | | 23 |
| 261 | . *IEEE Transactions on Multimedia*, **2006**, 8, 956-972 | 6.6 | 23 |
| 260 | Stability and Performance Limits of Adaptive Primal-Dual Networks. *IEEE Transactions on Signal Processing*, **2015**, 63, 2888-2903 | 4.8 | 22 |
| 259 | Diffusion least-mean squares with adaptive combiners **2009**, | | 22 |
| 258 | Ability of adaptive filters to track carrier offsets and channel nonstationarities. *IEEE Transactions on Signal Processing*, **2002**, 50, 1533-1544 | 4.8 | 22 |
| 257 | An Efficient Algorithm for a Bounded Errors-in-Variables Model. *SIAM Journal on Matrix Analysis and Applications*, **1999**, 20, 839-859 | 1.5 | 22 |
| 256 | Unbiased and stable leakage-based adaptive filters. *IEEE Transactions on Signal Processing*, **1999**, 47, 3261-3276 | 4.8 | 22 |
| 255 | On the Influence of Informed Agents on Learning and Adaptation Over Networks. *IEEE Transactions on Signal Processing*, **2013**, 61, 1339-1356 | 4.8 | 21 |
| 254 | On the limiting behavior of distributed optimization strategies **2012**, | | 20 |
| 253 | Randomized incremental protocols over adaptive networks **2010**, | | 20 |
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| 251 | Learning over social networks via diffusion adaptation **2012**, | | 19 |
| 250 | An invariant matrix structure in multiantenna communications. *IEEE Signal Processing Letters*, **2005**, 12, 749-752 | 3.2 | 19 |
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| 248 | Distributed Coupled Multiagent Stochastic Optimization. *IEEE Transactions on Automatic Control*, **2020**, 65, 175-190 | 5.9 | 18 |
| 247 | Information Exchange and Learning Dynamics Over Weakly Connected Adaptive Networks. *IEEE Transactions on Information Theory*, **2016**, 62, 1396-1414 | 2.8 | 17 |
| 246 | On distributed online classification in the midst of concept drifts. *Neurocomputing*, **2013**, 112, 138-152 | 5.4 | 17 |

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| 245 | . *IEEE Transactions on Signal Processing*, **2012**, 60, 4017-4034 | 4.8 | 17 |
| 244 | Stable pole-zero modeling of long FIR filters with application to the MMSE-DFE. *IEEE Transactions on Communications*, **1997**, 45, 508-513 | 6.9 | 17 |
| 243 | On the convergence of blind adaptive equalizers for constant modulus signals. *IEEE Transactions on Communications*, **2000**, 48, 795-803 | 6.9 | 17 |
| 242 | Design criteria for uncertain models with structured and unstructured uncertainties **1999**, 159-173 | | 17 |
| 241 | A Look-Ahead Block Schur Algorithm for Toeplitz-Like Matrices. *SIAM Journal on Matrix Analysis and Applications*, **1995**, 16, 388-414 | 1.5 | 17 |
| 240 | . *IEEE Transactions on Automatic Control*, **1994**, 39, 960-976 | 5.9 | 17 |
| 239 | Decentralized Proximal Gradient Algorithms With Linear Convergence Rates. *IEEE Transactions on Automatic Control*, **2021**, 66, 2787-2794 | 5.9 | 17 |
| 238 | Revisiting correlation-based functional connectivity and its relationship with structural connectivity. *Network Neuroscience*, **2020**, 4, 1235-1251 | 5.6 | 16 |
| 237 | Decentralized clustering over adaptive networks **2015**, | | 16 |
| 236 | Asynchronous Adaptation and Learning Over Networks—Part III: Comparison Analysis. *IEEE Transactions on Signal Processing*, **2015**, 63, 843-858 | 4.8 | 16 |
| 235 | Single-link diffusion strategies over adaptive networks **2012**, | | 16 |
| 234 | Digital adaptive phase noise reduction in coherent optical links. *Journal of Lightwave Technology*, **2006**, 24, 1269-1276 | 4 | 16 |
| 233 | Least mean-phase adaptive filters with application to communications systems. *IEEE Signal Processing Letters*, **2004**, 11, 220-223 | 3.2 | 16 |
| 232 | Robust wireless location over fading channels. *IEEE Transactions on Vehicular Technology*, **2003**, 52, 117-126 | | 16 |
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| 230 | Decentralized consensus optimization with asynchrony and delays **2016**, | | 16 |
| 229 | Diffusion LMS over multitask networks with noisy links **2016**, | | 16 |
| 228 | Supervised Learning Under Distributed Features. *IEEE Transactions on Signal Processing*, **2019**, 67, 977-992 | | 16 |

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| 227 | Diffusion LMS for clustered multitask networks **2014**, | | 15 |
| 226 | . *IEEE Transactions on Signal Processing*, **2012**, 60, 3755-3769 | 4.8 | 15 |
| 225 | Bacterial motility via diffusion adaptation **2010**, | | 15 |
| 224 | Collaborative learning of mixture models using diffusion adaptation **2011**, | | 15 |
| 223 | Innovations Diffusion: A Spatial Sampling Scheme for Distributed Estimation and Detection. *IEEE Transactions on Signal Processing*, **2009**, 57, 738-751 | 4.8 | 15 |
| 222 | An l2-stable feedback structure for nonlinear adaptive filtering and identification. *Automatica*, **1997**, 33, 13-30 | 5.7 | 15 |
| 221 | . *IEEE Transactions on Signal Processing*, **1994**, 42, 1052-1062 | 4.8 | 15 |
| 220 | Walkman: A Communication-Efficient Random-Walk Algorithm for Decentralized Optimization. *IEEE Transactions on Signal Processing*, **2020**, 68, 2513-2528 | 4.8 | 14 |
| 219 | Self-organization in bird flight formations using diffusion adaptation **2009**, | | 14 |
| 218 | Extended fast fixed-order RLS adaptive filters. *IEEE Transactions on Signal Processing*, **2001**, 49, 3015-3031 | 4.8 | 14 |
| 217 | The Degenerate Bounded Errors-in-Variables Model. *SIAM Journal on Matrix Analysis and Applications*, **2001**, 23, 138-166 | 1.5 | 14 |
| 216 | Affine Combination of Diffusion Strategies Over Networks. *IEEE Transactions on Signal Processing*, **2020**, 68, 2087-2104 | 4.8 | 13 |
| 215 | Excess-Risk of Distributed Stochastic Learners. *IEEE Transactions on Information Theory*, **2016**, 62, 5753-5785 | 2.85 | 13 |
| 214 | . *IEEE Transactions on Information Theory*, **2019**, 65, 622-646 | 2.8 | 13 |
| 213 | Sparse diffusion LMS for distributed adaptive estimation **2012**, | | 13 |
| 212 | Distributed pareto-optimal solutions via diffusion adaptation **2012**, | | 13 |
| 211 | Design of half- and full-duplex relay systems based on the MMSE formulation **2009**, | | 13 |
| 210 | Displacement Structure and Completion Problems. *SIAM Journal on Matrix Analysis and Applications*, **1995**, 16, 58-78 | 1.5 | 13 |

| 209 | ONLINE GRAPH LEARNING FROM SEQUENTIAL DATA **2018**, | | 13 |
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| 208 | Diffusion stochastic optimization with non-smooth regularizers **2016**, | | 12 |
| 207 | Diffusion LMS with communication constraints **2010**, | | 12 |
| 206 | . *IEEE Transactions on Aerospace and Electronic Systems*, **2010**, 46, 1865-1879 | 3.7 | 12 |
| 205 | Diffusion LMS-based distributed detection over adaptive networks **2009**, | | 12 |
| 204 | Distributed detection over adaptive networks based on diffusion estimation schemes **2009**, | | 12 |
| 203 | Supervised learning of perceptron and output feedback dynamic networks: a feedback analysis via the small gain theorem. *IEEE Transactions on Neural Networks*, **1997**, 8, 612-22 | | 12 |
| 202 | A robust power and rate control method for state-delayed wireless networks. *Automatica*, **2005**, 41, 1917-1924 | 5.7 | 12 |
| 201 | Parameter estimation with multiple sources and levels of uncertainties. *IEEE Transactions on Signal Processing*, **2000**, 48, 680-692 | 4.8 | 12 |
| 200 | Steady-state and tracking analyses of the sign algorithm without the explicit use of the independence assumption. *IEEE Signal Processing Letters*, **2000**, 7, 307-309 | 3.2 | 12 |
| 199 | A Regularization Framework for Learning Over Multitask Graphs. *IEEE Signal Processing Letters*, **2019**, 26, 297-301 | 3.2 | 12 |
| 198 | . *IEEE Transactions on Signal Processing*, **2017**, 65, 3526-3537 | 4.8 | 11 |
| 197 | . *IEEE Transactions on Signal and Information Processing Over Networks*, **2015**, 1, 2-19 | 2.8 | 11 |
| 196 | A strategy for adjusting combination weights over adaptive networks **2013**, | | 11 |
| 195 | Mobile adaptive networks with self-organization abilities **2010**, | | 11 |
| 194 | REACA: An Efficient Protocol Architecture for Large Scale Sensor Networks. *IEEE Transactions on Wireless Communications*, **2007**, 6, 2924-2933 | 9.6 | 11 |
| 193 | Inertia properties of indefinite quadratic forms. *IEEE Signal Processing Letters*, **1996**, 3, 57-59 | 3.2 | 11 |
| 192 | Diffusion LMS With Communication Delays: Stability and Performance Analysis. *IEEE Signal Processing Letters*, **2020**, 27, 730-734 | 3.2 | 10 |

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| 191 | Performance limits of stochastic sub-gradient learning, part II: Multi-agent case. *Signal Processing*, **2018**, 144, 253-264 | 4.4 | 10 |
| 190 | Stochastic gradient descent with finite samples sizes **2016**, | | 10 |
| 189 | Tracking behavior of mobile adaptive networks **2010**, | | 10 |
| 188 | Multi-level diffusion adaptive networks **2009**, | | 10 |
| 187 | Cooperative prey herding based on diffusion adaptation **2011**, | | 10 |
| 186 | Detection of fading overlapping multipath components. *Signal Processing*, **2006**, 86, 2407-2425 | 4.4 | 10 |
| 185 | Adaptive predictive power control for the uplink channel in DS-CDMA cellular systems. *IEEE Transactions on Vehicular Technology*, **2003**, 52, 1447-1462 | 6.8 | 10 |
| 184 | Robust finger tracking for wearable computer interfacing **2001**, | | 10 |
| 183 | Order-recursive RLS Laguerre adaptive filtering. *IEEE Transactions on Signal Processing*, **2000**, 48, 3000-3010 | 4.8 | 10 |
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| 181 | Structured matrices and unconstrained rational interpolation problems. *Linear Algebra and Its Applications*, **1994**, 203-204, 155-188 | 0.9 | 10 |
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| 179 | Adaptation and Learning Over Networks Under Subspace Constraints Part I: Stability Analysis. *IEEE Transactions on Signal Processing*, **2020**, 68, 1346-1360 | 4.8 | 9 |
| 178 | . *IEEE Transactions on Signal and Information Processing Over Networks*, **2016**, 2, 276-289 | 2.8 | 9 |
| 177 | Proximal diffusion for stochastic costs with non-differentiable regularizers **2015**, | | 9 |
| 176 | Diffusion LMS for source and process estimation in sensor networks **2012**, | | 9 |
| 175 | Distributed optimization via diffusion adaptation **2011**, | | 9 |
| 174 | Hierarchical diffusion algorithms for distributed estimation **2009**, | | 9 |

| 173 | Power Allocation for Beamforming Relay Networks under Channel Uncertainties **2009**, | | 9 |
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| 172 | Spatial-spectral joint detection for wideband spectrum sensing in cognitive radio networks **2008**, | | 9 |
| 171 | Innovations-Based Sampling Over Spatially-Correlated Sensors **2007**, | | 9 |
| 170 | Distributed processing over adaptive networks **2007**, | | 9 |
| 169 | A uniqueness result concerning a robust regularized least-squares solution. *Systems and Control Letters*, **2002**, 46, 361-369 | 2.4 | 9 |
| 168 | Fast algorithms for generalized displacement structures and lossless systems. *Linear Algebra and Its Applications*, **1995**, 219, 49-78 | 0.9 | 9 |
| 167 | Fast triangular factorization of the sum of quasi-Toeplitz and quasi-Hankel matrices. *Linear Algebra and Its Applications*, **1993**, 191, 77-106 | 0.9 | 9 |
| 166 | . *IEEE Open Journal of Signal Processing*, **2020**, 1, 99-119 | 1.2 | 9 |
| 165 | Distributed Learning in Non-Convex Environments—Part I: Agreement at a Linear Rate. *IEEE Transactions on Signal Processing*, **2021**, 69, 1242-1256 | 4.8 | 9 |
| 164 | Online Distributed Learning Over Graphs With Multitask Graph-Filter Models. *IEEE Transactions on Signal and Information Processing Over Networks*, **2020**, 6, 63-77 | 2.8 | 8 |
| 163 | Adaptive clustering for multitask diffusion networks **2015**, | | 8 |
| 162 | Adjustment of combination weights over adaptive diffusion networks **2014**, | | 8 |
| 161 | Adaptive models for gene networks. *PLoS ONE*, **2012**, 7, e31657 | 3.7 | 8 |
| 160 | Diffusion LMS localization and tracking algorithm for wireless cellular networks **2013**, | | 8 |
| 159 | Sampling clock jitter estimation and compensation in ADC circuits **2010**, | | 8 |
| 158 | A Proximal Diffusion Strategy for Multiagent Optimization With Sparse Affine Constraints. *IEEE Transactions on Automatic Control*, **2020**, 65, 4554-4567 | 5.9 | 8 |
| 157 | Dynamic Federated Learning **2020**, | | 8 |
| 156 | Group diffusion LMS **2016**, | | 8 |

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| 155 | Coordinate-Descent Diffusion Learning by Networked Agents. *IEEE Transactions on Signal Processing*, **2018**, 66, 352-367 | 4.8 | 7 |
| 154 | Estimation and Detection Over Adaptive Networks **2018**, 69-106 | | 7 |
| 153 | **2019**, | | 7 |
| 152 | Exact asymptotics of distributed detection over adaptive networks **2015**, | | 7 |
| 151 | Large deviations analysis of adaptive distributed detection **2014**, | | 7 |
| 150 | Online dictionary learning over distributed models **2014**, | | 7 |
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