

# Arye Nehorai

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

4,276  
citations

331670

21  
h-index

243625

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2823  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | MUSIC, maximum likelihood, and Cramer-Rao bound. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1989, 37, 720-741.  | 2.0  | 2,163     |
| 2  | A game-theoretic approach for optimal time-of-use electricity pricing. IEEE Transactions on Power Systems, 2013, 28, 884-892.   | 6.5  | 351       |
| 3  | Coarrays, MUSIC, and the Cram r-Rao Bound. IEEE Transactions on Signal Processing, 2017, 65, 933-946.   | 5.3  | 268       |
| 4  | Direction of Arrival Estimation Using Co-Prime Arrays: A Super Resolution Viewpoint. IEEE Transactions on Signal Processing, 2014, 62, 5565-5576.   | 5.3  | 255       |
| 5  | Sparse Direction of Arrival Estimation Using Co-Prime Arrays with Off-Grid Targets. IEEE Signal Processing Letters, 2014, 21, 26-29.  | 3.6  | 215       |
| 6  | OFDM MIMO Radar With Mutual-Information Waveform Design for Low-Grazing Angle Tracking. IEEE Transactions on Signal Processing, 2010, 58, 3152-3162.  | 5.3  | 134       |
| 7  | Nested Vector-Sensor Array Processing via Tensor Modeling. IEEE Transactions on Signal Processing, 2014, 62, 2542-2553.   | 5.3  | 100       |
| 8  | Wideband Gaussian Source Processing Using a Linear Nested Array. IEEE Signal Processing Letters, 2013, 20, 1110-1113.   | 3.6  | 71        |
| 9  | Community Detection in Complex Networks via Clique Conductance. Scientific Reports, 2018, 8, 5982.  | 3.3  | 44        |
| 10 | Fast Narrowband RFI Suppression Algorithms for SAR Systems via Matrix-Factorization Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 250-262.                            | 6.3  | 44        |
| 11 | Calibrating Nested Sensor Arrays With Model Errors. IEEE Transactions on Antennas and Propagation, 2015, 63, 4739-4748.   | 5.1  | 43        |
| 12 | Distributed Power System State Estimation Using Factor Graphs. IEEE Transactions on Signal Processing, 2015, 63, 2864-2876.   | 5.3  | 39        |
| 13 | Gridless Parameter Estimation for One-Bit MIMO Radar With Time-Varying Thresholds. IEEE Transactions on Signal Processing, 2020, 68, 1048-1063.   | 5.3  | 39        |
| 14 | A Novel Tensor Technique for Simultaneous Narrowband and Wideband Interference Suppression on Single-Channel SAR System. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9575-9588. | 6.3  | 35        |
| 15 | Efficient Narrowband RFI Mitigation Algorithms for SAR Systems With Reweighted Tensor Structures. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9396-9409.                        | 6.3  | 34        |
| 16 | Optimal Transport in Reproducing Kernel Hilbert Spaces: Theory and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1741-1754.                             | 13.9 | 32        |
| 17 | Modeling, Detecting, and Tracking Freezing of Gait in Parkinson Disease Using Inertial Sensors. IEEE Transactions on Biomedical Engineering, 2018, 65, 2152-2161.                                 | 4.2  | 31        |
| 18 | Riemannian Geometric Optimization Methods for Joint Design of Transmit Sequence and Receive Filter on MIMO Radar. IEEE Transactions on Signal Processing, 2020, 68, 5602-5616.                    | 5.3  | 30        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Reweighted Nuclear Norm and Reweighted Frobenius Norm Minimizations for Narrowband RFI Suppression on SAR System. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5949-5962.        | 6.3 | 29        |
| 20 | Multiscale forward electromagnetic model of uterine contractions during pregnancy. BMC Medical Physics, 2012, 12, 4.  | 2.4 | 25        |
| 21 | Joint Angle and Doppler Frequency Estimation for MIMO Radar with One-Bit Sampling: A Maximum Likelihood-Based Method. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4734-4748. | 4.7 | 21        |
| 22 | Public policy and economic dynamics of COVID-19 spread: A mathematical modeling study. PLoS ONE, 2020, 15, e0244174.  | 2.5 | 21        |
| 23 | Low-Rank Approximation via Generalized Reweighted Iterative Nuclear and Frobenius Norms. IEEE Transactions on Image Processing, 2020, 29, 2244-2257.  | 9.8 | 19        |
| 24 | A Novel Data-Driven Learning Method for Radar Target Detection in Nonstationary Environments. IEEE Signal Processing Letters, 2016, 23, 762-766.  | 3.6 | 18        |
| 25 | Estimating uterine source current during contractions using magnetomyography measurements. PLoS ONE, 2018, 13, e0202184.  | 2.5 | 18        |
| 26 | Modeling Magnetomyograms of Uterine Contractions during Pregnancy Using a Multiscale Forward Electromagnetic Approach. PLoS ONE, 2016, 11, e0152421.  | 2.5 | 17        |
| 27 | Gait Cycle Validation and Segmentation Using Inertial Sensors. IEEE Transactions on Biomedical Engineering, 2020, 67, 2132-2144.  | 4.2 | 15        |
| 28 | Manifold Optimization for Joint Design of MIMO-STAP Radars. IEEE Signal Processing Letters, 2020, 27, 1969-1973.  | 3.6 | 15        |
| 29 | Further Results on the Cram r  Rao Bound for Sparse Linear Arrays. IEEE Transactions on Signal Processing, 2019, 67, 1493-1507.   | 5.3 | 14        |
| 30 | Gaussian mixture learning via adaptive hierarchical clustering. Signal Processing, 2018, 150, 116-121.  | 3.7 | 13        |
| 31 | Real-time transient stability prediction and coherency identification in power systems using Koopman mode analysis. Electric Power Systems Research, 2021, 201, 107565.                           | 3.6 | 13        |
| 32 | Minimizing Structural Bias in Single-Molecule Super-Resolution Microscopy. Scientific Reports, 2018, 8, 13133.  | 3.3 | 12        |
| 33 | Grid-Less DOA Estimation Using Sparse Linear Arrays Based on Wasserstein Distance. IEEE Signal Processing Letters, 2019, 26, 838-842.   | 3.6 | 12        |
| 34 | Direction finding using sparse linear arrays with missing data. , 2017, , .   |     | 11        |
| 35 | SAR Automatic Target Recognition Using Joint Low-Rank and Sparse Multiview Denoising. IEEE Geoscience and Remote Sensing Letters, 2018, , 1-5.  | 3.1 | 11        |
| 36 | Optimal time-of-use electricity pricing using game theory. , 2012, , .  |     | 10        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Distinguishing Between Moving and Stationary Sources Using EEG/MEG Measurements With an Application to Epilepsy. IEEE Transactions on Biomedical Engineering, 2005, 52, 471-479.                 | 4.2 | 8         |
| 38 | A Low-Complexity MIMO Dual Function Radar Communication System via One-Bit Sampling. , 2021, , .   |     | 7         |
| 39 | Target Detection via Cognitive Radars Using Change-Point Detection, Learning, and Adaptation. Circuits, Systems, and Signal Processing, 2021, 40, 233-261.                                       | 2.0 | 6         |
| 40 | Joint Sequential Target Estimation and Clock Synchronization in Wireless Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 74-88.                  | 2.8 | 5         |
| 41 | The $\eta$ -Model's Maximum Likelihood, Cram r-Rao Bounds, and Hypothesis Testing. IEEE Transactions on Signal Processing, 2017, 65, 3234-3246.  | 5.3 | 4         |
| 42 | A Comparison of cognitive approaches for clutter-distribution identification in nonstationary environments. , 2018, , .  |     | 4         |
| 43 | Designing machine learning workflows with an application to topological data analysis. PLoS ONE, 2019, 14, e0225577.   | 2.5 | 4         |
| 44 | A myofibre model for the study of uterine excitation-contraction dynamics. Scientific Reports, 2020, 10, 16221.  | 3.3 | 4         |
| 45 | Sparsity-Assisted Signal Denoising and Pattern Recognition in Time-Series Data. Circuits, Systems, and Signal Processing, 2022, 41, 249-298.   | 2.0 | 4         |
| 46 | Electro-Mechanical Ionic Channel Modeling for Uterine Contractions and Oxytocin Effect during Pregnancy. Sensors, 2019, 19, 4898.  | 3.8 | 2         |
| 47 | Development of an Institution-Specific Readmission Risk Prediction Model for Real-time Prediction and Patient-Centered Interventions. Journal of General Internal Medicine, 2021, 36, 3910-3912. | 2.6 | 1         |
| 48 | Joint sequential target state estimation and clock synchronization in wireless sensor networks. , 2014, , .  |     | 0         |
| 49 | Riemannian Geometric Optimization Methods for Joint Design of Transmit Sequence and Receive Filter of MIMO Radar. , 2021, , .  |     | 0         |
| 50 | Local clustering via approximate heat kernel PageRank with subgraph sampling. Scientific Reports, 2021, 11, 15786.   | 3.3 | 0         |
| 51 | Containing epidemics in a local cluster via antidote distribution and partial quarantine. Physical Review E, 2021, 104, 034307.  | 2.1 | 0         |