

Amir Leshem

List of Publications by Year in descending order

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177
papers

2,805
citations

257357

24
h-index

223716

46
g-index

178
all docs

178
docs citations

178
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Adaptive Beamforming Based on Interference Covariance Matrix Reconstruction and Steering Vector Estimation. IEEE Transactions on Signal Processing, 2012, 60, 3881-3885. </title> </titles> <publication_date> <month>06</month> <year>2007</year> </publication_date> <pages> <first_page>1</first_page> <last_page>1</last_page> </pages> <publisher_item> <item_number item_number_type='arNumber'>4200699</item_number> </publisher_item> <doi_data>	3.2	458
2	<doi>10.1109/JSTSP.2007.897064</doi> <resource>http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=4200699</resource> </doi_data> </journal_article> <journal_article> <titles> <title><![CDATA[Information Theoretic	7.3	185
3	Ada Multichannel Opportunistic Carrier Sensing for Stable Channel Access Control in Cognitive Radio Systems. IEEE Journal on Selected Areas in Communications, 2012, 30, 82-95.	9.7	130
4	Cooperative Game Theory and the Gaussian Interference Channel. IEEE Journal on Selected Areas in Communications, 2008, 26, 1078-1088.	9.7	110
5	Multichannel Interference Mitigation Techniques in Radio Astronomy. Astrophysical Journal, Supplement Series, 2000, 131, 355-373.	3.0	100
6	MIMO Detection for High-Order QAM Based on a Gaussian Tree Approximation. IEEE Transactions on Information Theory, 2011, 57, 4973-4982.	1.5	72
7	Synthetic aperture radio telescopes. IEEE Signal Processing Magazine, 2010, 27, 14-29.	4.6	67
8	Radio-astronomical imaging in the presence of strong radio interference. IEEE Transactions on Information Theory, 2000, 46, 1730-1747.	1.5	66
9	A Time-Varying Opportunistic Approach to Lifetime Maximization of Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 5307-5319.	3.2	57
10	Active Sensing of Social Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 406-419.	1.6	52
11	Blind separation of rotating machine sources: bilinear forms and convolutive mixtures. Neurocomputing, 2002, 49, 349-368.	3.5	50
12	Bargaining Over the Interference Channel. , 2006, , .		48
13	Game Theoretic Aspects of the Multi-Channel ALOHA Protocol in Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 2276-2288.	9.7	48
14	Joint Sponsored and Edge Caching Content Service Market: A Game-Theoretic Approach. IEEE Transactions on Wireless Communications, 2019, 18, 1166-1181.	6.1	48
15	Direction-of-arrival estimation for constant modulus signals. IEEE Transactions on Signal Processing, 1999, 47, 3125-3129.	3.2	47
16	Decentralized Caching for Content Delivery Based on Blockchain: A Game Theoretic Perspective. , 2018, , .		43
17	Energy-Efficient Detection in Wireless Sensor Networks Using Likelihood Ratio and Channel State Information. IEEE Journal on Selected Areas in Communications, 2011, 29, 1671-1683.	9.7	42
18	A Low Complexity Linear Precoding Technique for Next Generation VDSL Downstream Transmission Over Copper. IEEE Transactions on Signal Processing, 2007, 55, 5527-5534.	3.2	40

#	ARTICLE	IF	CITATIONS
19	A Low Complexity Blind Estimator of Narrowband Polynomial Phase Signals. IEEE Transactions on Signal Processing, 2010, 58, 4674-4683.	3.2	38
20	Fully Distributed Optimal Channel Assignment for Open Spectrum Access. IEEE Transactions on Signal Processing, 2014, 62, 283-294.	3.2	37
21	Sensitivity analysis of MVDR and MPDR beamformers. , 2010, , .		36
22	Distributed Learning for Channel Allocation Over a Shared Spectrum. IEEE Journal on Selected Areas in Communications, 2019, 37, 2337-2349.	9.7	33
23	Phase Noise Compensation for OFDM Systems. IEEE Transactions on Signal Processing, 2017, 65, 5675-5686.	3.2	32
24	Data injection attacks in randomized gossiping. IEEE Transactions on Signal and Information Processing Over Networks, 2016, , 1-1.	1.6	30
25	Distributed Game-Theoretic Optimization and Management of Multichannel ALOHA Networks. IEEE/ACM Transactions on Networking, 2016, 24, 1718-1731.	2.6	29
26	Game Theoretic Dynamic Channel Allocation for Frequency-Selective Interference Channels. IEEE Transactions on Information Theory, 2019, 65, 330-353.	1.5	28
27	Distributed Resource Allocation for Energy Efficiency in MIMO OFDMA Wireless Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3451-3465.	9.7	26
28	Iterative power pricing for distributed spectrum coordination in DSL. IEEE Transactions on Communications, 2009, 57, 948-953.	4.9	24
29	Performance Analysis of Likelihood-Based Multiple Access for Detection Over Fading Channels. IEEE Transactions on Information Theory, 2013, 59, 2471-2481.	1.5	24
30	Game Theoretic Analysis for Joint Sponsored and Edge Caching Content Service Market. , 2018, , .		24
31	Recursive Implementation of the Distributed Karhunen-Loève Transform. IEEE Transactions on Signal Processing, 2010, 58, 5320-5330.	3.2	23
32	Array calibration in the presence of multipath. IEEE Transactions on Signal Processing, 2000, 48, 53-59.	3.2	22
33	Signal processing for radio astronomical arrays. , 0, , .		22
34	Stable matching for channel access control in cognitive radio systems. , 2010, , .		20
35	Parametric High Resolution Techniques for Radio Astronomical Imaging. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 670-684.	7.3	19
36	Array Signal Processing for Radio Astronomy. Experimental Astronomy, 2004, 17, 231-249.	1.6	18

#	ARTICLE	IF	CITATIONS
37	Adaptive Selective Sidelobe Canceller Beamformer With Applications to Interference Mitigation in Radio Astronomy. IEEE Transactions on Signal Processing, 2013, 61, 5063-5074.	3.2	17
38	Decentralized estimation of regression coefficients in sensor networks. , 2017, 68, 16-23.		17
39	Competitive Spectrum Management With Incomplete Information. IEEE Transactions on Signal Processing, 2010, 58, 6251-6265.	3.2	16
40	Robust adaptive beamforming based on jointly estimating covariance matrix and steering vector. , 2011, , .		16
41	Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points. IEEE Transactions on Signal Processing, 2019, 67, 4582-4596.	3.2	16
42	Array Signal Processing for Radio Astronomy. , 2005, , 231-249.		16
43	Estimating sensor population via probabilistic sequential polling. IEEE Signal Processing Letters, 2005, 12, 395-398.	2.1	15
44	Signal Processing for Gigabit-Rate Wireline Communications: An Overview of the State of the Art and Research Challenges. IEEE Signal Processing Magazine, 2017, 34, 141-164.	4.6	15
45	Approximate Best-Response Dynamics in Random Interference Games. IEEE Transactions on Automatic Control, 2018, 63, 1549-1562.	3.6	15
46	Collinear Stimuli Induce Local and Cross-Areal Coherence in the Visual Cortex of Behaving Monkeys. PLoS ONE, 2012, 7, e49391.	1.1	14
47	Finite sample identifiability of multiple constant modulus sources. IEEE Transactions on Information Theory, 2003, 49, 2314-2319.	1.5	12
48	Bargaining over the interference channel with total power constraints. , 2009, , .		12
49	The Performance of Zero Forcing DSL Systems. IEEE Signal Processing Letters, 2013, 20, 527-530.	2.1	12
50	Spectrum and Energy Efficient Multiple Access for Detection in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2018, 66, 5988-6001.	3.2	12
51	Maximum likelihood separation of constant modulus signals. IEEE Transactions on Signal Processing, 2000, 48, 2948-2952.	3.2	11
52	Radio astronomical image formation using constrained least squares and Krylov subspaces. Astronomy and Astrophysics, 2016, 588, A95.	2.1	11
53	Game of Thrones: Fully Distributed Learning for Multiplayer Bandits. Mathematics of Operations Research, 2021, 46, 159-178.	0.8	11
54	Convergence Analysis of Downstream VDSL Adaptive Multichannel Partial FEXT Cancellation. IEEE Transactions on Communications, 2010, 58, 3021-3027.	4.9	10

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55	A fast matching algorithm for asymptotically optimal distributed channel assignment. , 2013, , .		10
56	On the Non-Existence of Unbiased Estimators in Constrained Estimation Problems. IEEE Transactions on Information Theory, 2018, 64, 5549-5554.	1.5	10
57	Maximizing Service Reward for Queues With Deadlines. IEEE/ACM Transactions on Networking, 2018, 26, 2296-2308.	2.6	10
58	Constant Modulus Beamforming. , 2005, , 299-351.		9
59	Pseudo Prior Belief Propagation for densely connected discrete graphs. , 2010, , .		9
60	Arbitrary Partial FEXT Cancellation in Adaptive Precoding for Multichannel Downstream VDSL. IEEE Transactions on Signal Processing, 2012, 60, 5754-5763.	3.2	9
61	Weighted Max-Min Resource Allocation for Frequency Selective Channels. IEEE Transactions on Signal Processing, 2013, 61, 3723-3732.	3.2	9
62	Detection of data injection attacks in decentralized learning. , 2015, , .		9
63	Expected time complexity of the auction algorithm and the push relabel algorithm for maximum bipartite matching on random graphs. Random Structures and Algorithms, 2016, 48, 384-395.	0.6	9
64	The Impact of Random Actions on Opinion Dynamics. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 576-584.	1.6	9
65	Finite Word Length Effects on Transmission Rate in Zero Forcing Linear Precoding for Multichannel DSL. IEEE Transactions on Signal Processing, 2009, 57, 1469-1482.	3.2	8
66	Iterative Tomographic Solution of Integer Least Squares Problems With Applications to MIMO Detection. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1486-1496.	7.3	8
67	Training Task Allocation in Federated Edge Learning: A Matching-Theoretic Approach. , 2020, , .		8
68	On the consistency of the Definable Tree Property on $\hat{\alpha}, \mu$. Journal of Symbolic Logic, 2000, 65, 1204-1214.	0.4	7
69	Information Theoretic Radar Waveform Design for Multiple Targets. , 2006, , .		7
70	Time-varying Opportunistic Protocol for maximizing sensor networks lifetime. , 2009, , .		7
71	Fully distributed auction algorithm for spectrum sharing in unlicensed bands. , 2011, , .		7
72	Distributed throughput maximization for multi-channel ALOHA networks. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
73	The social system identification problem. , 2015, , .		7
74	Asymptotically optimal distributed channel allocation: A competitive game-theoretic approach. , 2015, , .		7
75	Adaptive Radar Waveform Design for Multiple Targets: Computational Aspects. , 2007, , .		6
76	Radio astronomical image formation using sparse reconstruction techniques. , 2008, , .		6
77	MIMO decoding based on stochastic reconstruction from multiple projections. , 2009, , .		6
78	Smart carrier sensing for distributed computation of the generalized nash bargaining solution. , 2011, , .		6
79	Non-asymptotic performance bounds of eigenvalue based detection of signals in non-Gaussian noise. , 2016, , .		6
80	Scheduling For 5G Cellular Networks With Priority And Deadline Constraints. , 2018, , .		6
81	Evolving Risk Management Against Advanced Persistent Threats in Fog Computing. , 2018, , .		6
82	Asymptotically Optimal Resource Block Allocation With Limited Feedback. IEEE Transactions on Wireless Communications, 2019, 18, 34-46.	6.1	6
83	Suppressing the impact of the COVID-19 pandemic using controlled testing and isolation. Scientific Reports, 2021, 11, 6279.	1.6	6
84	Decentralized Learning for Channel Allocation in IoT Networks Over Unlicensed Bandwidth as a Contextual Multi-Player Multi-Armed Bandit Game. IEEE Transactions on Wireless Communications, 2022, 21, 3162-3178.	6.1	6
85	Information theoretic radar waveform design for multiple targets. , 2007, , .		5
86	Blind Source Separation: The Location of Local Minima in the Case of Finitely Many Samples. IEEE Transactions on Signal Processing, 2008, 56, 4340-4353.	3.2	5
87	Alternative bargaining solutions for the interference channel. , 2009, , .		5
88	Introduction to the Issue on Game Theory in Signal Processing. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 73-75.	7.3	5
89	Analog Product Codes Decodable by Linear Programming. IEEE Transactions on Information Theory, 2012, 58, 509-518.	1.5	5
90	Convergence of approximate best-response dynamics in interference games. , 2016, , .		5

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91	Robust Turbo Analog Error Correcting Codes Based on Analog CRC Verification. IEEE Transactions on Signal Processing, 2016, 64, 757-770.	3.2	5
92	Energy Efficient Bidirectional Massive MIMO Relay Beamforming. IEEE Signal Processing Letters, 2017, 24, 1010-1014.	2.1	5
93	Detection of Data Injection Attacks on Decentralized Statistical Estimation. , 2018, , .		5
94	Radio Transient Detection in Radio Astronomical Arrays. IEEE Transactions on Signal Processing, 2020, 68, 5648-5663.	3.2	5
95	A Game Theoretic Optimization of the Multi-channel ALOHA Protocol. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 77-87.	0.2	5
96	Introduction to the Issue on Signal Processing for Space Research and Astronomy. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 609-612.	7.3	4
97	On channels with asynchronous state information at the transmitter. , 2012, , .		4
98	Bounds on the expected optimal channel assignment in Rayleigh channels. , 2012, , .		4
99	Signal Processing for Vectored Multichannel VDSL. Academic Press Library in Signal Processing, 2014, 2, 295-327.	0.8	4
100	On the Multiple Access Channel With Asynchronous Cognition. IEEE Transactions on Information Theory, 2016, 62, 5643-5663.	1.5	4
101	Distributed Energy Efficient Channel Allocation. IEEE Transactions on Green Communications and Networking, 2019, 3, 1152-1166.	3.5	4
102	Scheduling for Multi-User Multi-Input Multi-Output Wireless Networks with Priorities and Deadlines. Future Internet, 2019, 11, 172.	2.4	4
103	The Simultaneous Connectivity of Cognitive Networks. IEEE Transactions on Information Theory, 2019, 65, 6911-6930.	1.5	4
104	Bargaining Solution for Partial Orthogonal transmission over frequency selective interference channel. , 2011, , .		3
105	On the asynchronous cognitive MAC. , 2014, , .		3
106	R-D Frequency estimation of multidimensional sinusoids based on eigenvalues and eigenvectors. Multidimensional Systems and Signal Processing, 2015, 26, 777-786.	1.7	3
107	Efficient algorithms for linear polyhedral bandits. , 2016, , .		3
108	Multiagent Autonomous Learning for Distributed Channel Allocation in Wireless Networks. , 2019, , .		3

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109	Ergodic Spatial Nulling for Achieving Interference Free Rates. , 2019, , .		3
110	Energy Consumption Performance of Opportunistic Device-to-Device Relaying Under Log-Normal Shadowing. IEEE Systems Journal, 2020, , 1-12.	2.9	3
111	One for All and All for One: Distributed Learning of Fair Allocations With Multi-Player Bandits. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 584-598.	1.9	3
112	Finite sample performance of linear least squares estimation. Journal of the Franklin Institute, 2021, 358, 7955-7991.	1.9	3
113	The Restless Hidden Markov Bandit With Linear Rewards and Side Information. IEEE Transactions on Signal Processing, 2021, 69, 1108-1123.	3.2	3
114	Adaptive selective sidelobe canceller beamformer with applications in radio astronomy. , 2010, , .		2
115	Distributed game theoretic optimization of frequency selective interference channels: A cross layer approach. , 2010, , .		2
116	A greedy approach to the distributed Karhunen-Loève transform. , 2010, , .		2
117	Competitive spectrum sharing in symmetric fading channel with incomplete information. , 2010, , .		2
118	Convergence analysis of adaptive partial FEXT cancellation precoder for multichannel downstream VDSL. , 2010, , .		2
119	Likelihood-Ratio and channel based access for energy-efficient detection in wireless sensor networks. , 2010, , .		2
120	Rate control for PSD limited multiple access systems through linear programming. , 2011, , .		2
121	Introduction to the Issue on Learning-Based Decision Making in Dynamic Systems Under Uncertainty. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 743-745.	7.3	2
122	Topology management and outage optimization for multicasting over slowly fading multiple access networks. Computer Communications, 2014, 46, 43-53.	3.1	2
123	Asynchronous Transmission Over Single-User State-Dependent Channels. IEEE Transactions on Information Theory, 2015, 61, 5854-5867.	1.5	2
124	Gigabit DSL: A deep-LMS approach. , 2016, , .		2
125	Asymptotic performance analysis of zero forcing DSL systems. , 2016, , .		2
126	Game theoretic resource allocation form-dependent channels with application to OFDMA. , 2017, , .		2

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127	Efficient and asymptotically optimal resource block allocation. , 2018, , .		2
128	Finite Sample Performance of Linear Least Squares Estimators Under Sub-Gaussian Martingale Difference Noise. , 2018, , .		2
129	Active Sensing of Social Networks: Network Identification From Low-Rank Data. , 2018, , 601-622.		2
130	Localization of Data Injection Attacks on Distributed M-Estimation. , 2019, , .		2
131	The Interference Channel Revisited: Aligning Interference by Adjusting Antenna Separation. IEEE Transactions on Signal Processing, 2021, 69, 1874-1884.	3.2	2
132	Restless Hidden Markov Bandit with Linear Rewards. , 2020, , .		2
133	Two-Stage Resource Allocation in Reconfigurable Intelligent Surface Assisted Hybrid Networks via Multi-player Bandits. IEEE Transactions on Communications, 2022, 70, 3526-3541.	4.9	2
134	<title>Effect of adaptive interference supression on radio astronomical image formation</title>. , 2000, 4015, 341.		1
135	Tracking a MIMO Channel Singular Value Decomposition via Projection Approximation. , 2006, , .		1
136	Computing The Nash Bargaining Solution for the 2X2 Frequency Selective Interference Channel. , 2007, , .		1
137	Joint adaptive waveform design and direction-of-arrival tracking. , 2008, , .		1
138	A Rayleigh fading interference game with incomplete information. , 2010, , .		1
139	Astronomy and cosmology [From the Guest editors. IEEE Signal Processing Magazine, 2010, 27, 13-13, 124.	4.6	1
140	A computationally efficient blind estimator of polynomial phase signals observed by a sensor array. , 2010, , .		1
141	Parametric Spectrum Shaping for Downstream Spectrum Management of Digital Subscriber Lines. IEEE Communications Letters, 2012, 16, 417-419.	2.5	1
142	Network Coding for Multicasting over Rayleigh Fading Multi Access Channels. , 2013, , .		1
143	Iterative decoding of robust analog product codes. , 2014, , .		1
144	Turbo analog error correcting codes based on analog CRC. , 2014, , .		1

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145	Robust spectrum management with incomplete information. , 2014, , .		1
146	Identifying trust in social networks with stubborn agents, with application to market decisions. , 2015, , .		1
147	Simultaneous connectivity in heterogeneous cognitive radio networks. , 2016, , .		1
148	Distributed fractional programming in matched multiple access channels. , 2016, , .		1
149	Finite sample performance of least squares estimation in sub-Gaussian noise. , 2016, , .		1
150	Robust spectrum management with incomplete information over fading channels. Journal of the Franklin Institute, 2017, 354, 1066-1086.	1.9	1
151	Radio Transient Detection in Radio Astronomical Arrays. , 2018, , .		1
152	NETWORK INFERENCE FROM COMPLEX SYSTEMS STEADY STATES OBSERVATIONS: THEORY AND METHODS. , 2018, , .		1
153	Density-Based Multiple Access for Detection in Wireless Sensor Networks. , 2018, , .		1
154	Eliminating Out-Of-Cell Interference in Cellular Massive Mimo with a Single Additional Transceiver. , 2020, , .		1
155	Brief Announcement: Noisy Beeping Networks. , 2020, , .		1
156	Monotonic Generalized Nash Games with Application to the Management of Energy-Aware Aloha Networks. , 2022, , .		1
157	Noisy Beeping Networks. Information and Computation, 2022, , 104925.	0.5	1
158	The independence of. Journal of Symbolic Logic, 1999, 64, 350-362.	0.4	0
159	\mathbb{O}^{\sharp} and elementary end extensions of V_{κ} . Proceedings of the American Mathematical Society, 2001, 129, 2445-2450.	0.4	0
160	PERFORMANCE COMPARISON BETWEEN SIMPLIFIED MMSE AND MSSNR FOR MIMO CHANNEL SYSTEMS. , 2006, , .		0
161	Cover's test of rationality revisited: Computability aspects of hypothesis testing. , 2006, , .		0
162	Fixed point error analysis of linear multichannel precoding for VDSL. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0

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163	Performance bounds for channel tracking algorithms For MIMO systems. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
164	Interference cancellation for radio astronomical images. , 2011, , .		0
165	Overcoming spatial denial in non-cooperative bistatic radar. , 2012, , .		0
166	A computationally efficient calibration algorithm for the LOFAR radio astronomical array. , 2014, , .		0
167	Deconvolution using the adaptive selective sidelobe canceller beamformer. , 2015, , .		0
168	Active online learning of trusts in social networks. , 2016, , .		0
169	On the Allocation of Multiple Divisible Assets to Players with Different Utilities. Computational Economics, 2018, 52, 253-274.	1.5	0
170	Hybrid spectrum sharing for cognitive small cells. , 2018, , .		0
171	Data Injection Attack on Decentralized Optimization. , 2018, , .		0
172	Lfinite Sample Bounds on the Performance of Weighted Linear Least Squares in Sub-Gaussian Correlated Noise. , 2019, , .		0
173	Asymptotic performance of ZF and MMSE crosstalk cancelers for DSL systems. , 2019, 88, 182-196.		0
174	Joint Scheduling and Beamforming for Delay Sensitive Traffic with Priorities and Deadlines. , 2020, , .		0
175	Controlled Testing and Isolation for Suppressing Covid-19. , 2021, , .		0
176	Non-Convex Generalized Nash Games for Energy Efficient Power Allocation and Beamforming in mmWave Networks. IEEE Transactions on Signal Processing, 2022, 70, 3193-3205.	3.2	0
177	Localization of Data Injection Attacks on Distributed M-Estimation. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 655-669.	1.6	0