

Amir Leshem

List of Publications by Year in descending order

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Version: 2024-02-01

177
papers

2,805
citations

257357

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223716

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178
all docs

178
docs citations

178
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Monotonic Generalized Nash Games with Application to the Management of Energy-Aware Aloha Networks. , 2022, , .		1
4	Noisy Beeping Networks. Information and Computation, 2022, , 104925.	0.5	1
5	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
6	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
7	Game of Thrones: Fully Distributed Learning for Multiplayer Bandits. Mathematics of Operations Research, 2021, 46, 159-178.	0.8	11
8	The Interference Channel Revisited: Aligning Interference by Adjusting Antenna Separation. IEEE Transactions on Signal Processing, 2021, 69, 1874-1884.	3.2	2
9	Suppressing the impact of the COVID-19 pandemic using controlled testing and isolation. Scientific Reports, 2021, 11, 6279.	1.6	6
10	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
11	Controlled Testing and Isolation for Suppressing Covid-19. , 2021, , .		0
12	Finite sample performance of linear least squares estimation. Journal of the Franklin Institute, 2021, 358, 7955-7991.	1.9	3
13	The Restless Hidden Markov Bandit With Linear Rewards and Side Information. IEEE Transactions on Signal Processing, 2021, 69, 1108-1123.	3.2	3
14	Joint Scheduling and Beamforming for Delay Sensitive Traffic with Priorities and Deadlines. , 2020, , .		0
15	Energy Consumption Performance of Opportunistic Device-to-Device Relaying Under Log-Normal Shadowing. IEEE Systems Journal, 2020, , 1-12.	2.9	3
16	Radio Transient Detection in Radio Astronomical Arrays. IEEE Transactions on Signal Processing, 2020, 68, 5648-5663.	3.2	5
17	Eliminating Out-Of-Cell Interference in Cellular Massive Mimo with a Single Additional Transceiver. , 2020, , .		1
18	Training Task Allocation in Federated Edge Learning: A Matching-Theoretic Approach. , 2020, , .		8

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19	Restless Hidden Markov Bandit with Linear Rewards. , 2020, , .		2
20	Brief Announcement: Noisy Beeping Networks. , 2020, , .		1
21	Localization of Data Injection Attacks on Distributed M-Estimation. , 2019, , .		2
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	Distributed Energy Efficient Channel Allocation. IEEE Transactions on Green Communications and Networking, 2019, 3, 1152-1166.	3.5	4
24	Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points. IEEE Transactions on Signal Processing, 2019, 67, 4582-4596.	3.2	16
25	Scheduling for Multi-User Multi-Input Multi-Output Wireless Networks with Priorities and Deadlines. Future Internet, 2019, 11, 172.	2.4	4
26	Asymptotically Optimal Resource Block Allocation With Limited Feedback. IEEE Transactions on Wireless Communications, 2019, 18, 34-46.	6.1	6
27	Lfinite Sample Bounds on the Performance of Weighted Linear Least Squares in Sub-Gaussian Correlated Noise. , 2019, , .		0
28	The Simultaneous Connectivity of Cognitive Networks. IEEE Transactions on Information Theory, 2019, 65, 6911-6930.	1.5	4
29	Multiagent Autonomous Learning for Distributed Channel Allocation in Wireless Networks. , 2019, , .		3
30	Asymptotic performance of ZF and MMSE crosstalk cancelers for DSL systems. , 2019, 88, 182-196.		0
31	Ergodic Spatial Nulling for Achieving Interference Free Rates. , 2019, , .		3
32	Joint Sponsored and Edge Caching Content Service Market: A Game-Theoretic Approach. IEEE Transactions on Wireless Communications, 2019, 18, 1166-1181.	6.1	48
33	Game Theoretic Dynamic Channel Allocation for Frequency-Selective Interference Channels. IEEE Transactions on Information Theory, 2019, 65, 330-353.	1.5	28
34	The Impact of Random Actions on Opinion Dynamics. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 576-584.	1.6	9
35	On the Allocation of Multiple Divisible Assets to Players with Different Utilities. Computational Economics, 2018, 52, 253-274.	1.5	0
36	On the Non-Existence of Unbiased Estimators in Constrained Estimation Problems. IEEE Transactions on Information Theory, 2018, 64, 5549-5554.	1.5	10

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37	Efficient and asymptotically optimal resource block allocation. , 2018, , .		2
38	Scheduling For 5G Cellular Networks With Priority And Deadline Constraints. , 2018, , .		6
39	Game Theoretic Analysis for Joint Sponsored and Edge Caching Content Service Market. , 2018, , .		24
40	Detection of Data Injection Attacks on Decentralized Statistical Estimation. , 2018, , .		5
41	Finite Sample Performance of Linear Least Squares Estimators Under Sub-Gaussian Martingale Difference Noise. , 2018, , .		2
42	Radio Transient Detection in Radio Astronomical Arrays. , 2018, , .		1
43	NETWORK INFERENCE FROM COMPLEX SYSTEMS STEADY STATES OBSERVATIONS: THEORY AND METHODS. , 2018, , .		1
44	Evolving Risk Management Against Advanced Persistent Threats in Fog Computing. , 2018, , .		6
45	Hybrid spectrum sharing for cognitive small cells. , 2018, , .		0
46	Maximizing Service Reward for Queues With Deadlines. IEEE/ACM Transactions on Networking, 2018, 26, 2296-2308.	2.6	10
47	Spectrum and Energy Efficient Multiple Access for Detection in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2018, 66, 5988-6001.	3.2	12
48	Data Injection Attack on Decentralized Optimization. , 2018, , .		0
49	Density-Based Multiple Access for Detection in Wireless Sensor Networks. , 2018, , .		1
50	Decentralized Caching for Content Delivery Based on Blockchain: A Game Theoretic Perspective. , 2018, , .		43
51	Active Sensing of Social Networks: Network Identification From Low-Rank Data. , 2018, , 601-622.		2
52	Approximate Best-Response Dynamics in Random Interference Games. IEEE Transactions on Automatic Control, 2018, 63, 1549-1562.	3.6	15
53	Robust spectrum management with incomplete information over fading channels. Journal of the Franklin Institute, 2017, 354, 1066-1086.	1.9	1
54	Energy Efficient Bidirectional Massive MIMO Relay Beamforming. IEEE Signal Processing Letters, 2017, 24, 1010-1014.	2.1	5

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55	Decentralized estimation of regression coefficients in sensor networks. , 2017, 68, 16-23.		17
56	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
57	Game theoretic resource allocation form-dependent channels with application to OFDMA. , 2017, , .		2
58	Phase Noise Compensation for OFDM Systems. IEEE Transactions on Signal Processing, 2017, 65, 5675-5686.	3.2	32
59	Radio astronomical image formation using constrained least squares and Krylov subspaces. Astronomy and Astrophysics, 2016, 588, A95.	2.1	11
60	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
61	Convergence of approximate best-response dynamics in interference games. , 2016, , .		5
62	Gigabit DSL: A deep-LMS approach. , 2016, , .		2
63	On the Multiple Access Channel With Asynchronous Cognition. IEEE Transactions on Information Theory, 2016, 62, 5643-5663.	1.5	4
64	Asymptotic performance analysis of zero forcing DSL systems. , 2016, , .		2
65	Simultaneous connectivity in heterogeneous cognitive radio networks. , 2016, , .		1
66	Distributed fractional programming in matched multiple access channels. , 2016, , .		1
67	Data injection attacks in randomized gossiping. IEEE Transactions on Signal and Information Processing Over Networks, 2016, , 1-1.	1.6	30
68	Finite sample performance of least squares estimation in sub-Gaussian noise. , 2016, , .		1
69	Efficient algorithms for linear polyhedral bandits. , 2016, , .		3
70	Active online learning of trusts in social networks. , 2016, , .		0
71	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
72	Active Sensing of Social Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 406-419.	1.6	52

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73	Non-asymptotic performance bounds of eigenvalue based detection of signals in non-Gaussian noise. , 2016, , .		6
74	Robust Turbo Analog Error Correcting Codes Based on Analog CRC Verification. IEEE Transactions on Signal Processing, 2016, 64, 757-770.	3.2	5
75	Distributed Game-Theoretic Optimization and Management of Multichannel ALOHA Networks. IEEE/ACM Transactions on Networking, 2016, 24, 1718-1731.	2.6	29
76	Identifying trust in social networks with stubborn agents, with application to market decisions. , 2015, , .		1
77	The social system identification problem. , 2015, , .		7
78	Asymptotically optimal distributed channel allocation: A competitive game-theoretic approach. , 2015, , .		7
79	Detection of data injection attacks in decentralized learning. , 2015, , .		9
80	Deconvolution using the adaptive selective sidelobe canceller beamformer. , 2015, , .		0
81	Asynchronous Transmission Over Single-User State-Dependent Channels. IEEE Transactions on Information Theory, 2015, 61, 5854-5867.	1.5	2
82	R-D Frequency estimation of multidimensional sinusoids based on eigenvalues and eigenvectors. Multidimensional Systems and Signal Processing, 2015, 26, 777-786.	1.7	3
83	Iterative decoding of robust analog product codes. , 2014, , .		1
84	A computationally efficient calibration algorithm for the LOFAR radio astronomical array. , 2014, , .		0
85	Turbo analog error correcting codes based on analog CRC. , 2014, , .		1
86	Signal Processing for Vektored Multichannel VDSL. Academic Press Library in Signal Processing, 2014, 2, 295-327.	0.8	4
87	Fully Distributed Optimal Channel Assignment for Open Spectrum Access. IEEE Transactions on Signal Processing, 2014, 62, 283-294.	3.2	37
88	On the asynchronous cognitive MAC. , 2014, , .		3
89	Robust spectrum management with incomplete information. , 2014, , .		1
90	Topology management and outage optimization for multicasting over slowly fading multiple access networks. Computer Communications, 2014, 46, 43-53.	3.1	2

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91	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
92	Network Coding for Multicasting over Rayleigh Fading Multi Access Channels. , 2013, , .		1
93	A fast matching algorithm for asymptotically optimal distributed channel assignment. , 2013, , .		10
94	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
95	The Performance of Zero Forcing DSL Systems. IEEE Signal Processing Letters, 2013, 20, 527-530.	2.1	12
96	Performance Analysis of Likelihood-Based Multiple Access for Detection Over Fading Channels. IEEE Transactions on Information Theory, 2013, 59, 2471-2481.	1.5	24
97	Weighted Max-Min Resource Allocation for Frequency Selective Channels. IEEE Transactions on Signal Processing, 2013, 61, 3723-3732.	3.2	9
98	Distributed throughput maximization for multi-channel ALOHA networks. , 2013, , .		7
99	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
100	Overcoming spatial denial in non-cooperative bistatic radar. , 2012, , .		0
101	Arbitrary Partial FEXT Cancellation in Adaptive Precoding for Multichannel Downstream VDSL. IEEE Transactions on Signal Processing, 2012, 60, 5754-5763.	3.2	9
102	On channels with asynchronous state information at the transmitter. , 2012, , .		4
103	Bounds on the expected optimal channel assignment in Rayleigh channels. , 2012, , .		4
104	Robust Adaptive Beamforming Based on Interference Covariance Matrix Reconstruction and Steering Vector Estimation. IEEE Transactions on Signal Processing, 2012, 60, 3881-3885.	3.2	458
105	Collinear Stimuli Induce Local and Cross-Areal Coherence in the Visual Cortex of Behaving Monkeys. PLoS ONE, 2012, 7, e49391.	1.1	14
106	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
107	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
108	Parametric Spectrum Shaping for Downstream Spectrum Management of Digital Subscriber Lines. IEEE Communications Letters, 2012, 16, 417-419.	2.5	1

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109	Analog Product Codes Decodable by Linear Programming. IEEE Transactions on Information Theory, 2012, 58, 509-518.	1.5	5
110	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
111	Smart carrier sensing for distributed computation of the generalized nash bargaining solution. , 2011, , .		6
112	Fully distributed auction algorithm for spectrum sharing in unlicensed bands. , 2011, , .		7
113	Robust adaptive beamforming based on jointly estimating covariance matrix and steering vector. , 2011, , .		16
114	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
115	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
116	MIMO Detection for High-Order QAM Based on a Gaussian Tree Approximation. IEEE Transactions on Information Theory, 2011, 57, 4973-4982.	1.5	72
117	Interference cancellation for radio astronomical images. , 2011, , .		0
118	Bargaining Solution for Partial Orthogonal transmission over frequency selective interference channel. , 2011, , .		3
119	Rate control for PSD limited multiple access systems through linear programming. , 2011, , .		2
120	Convergence Analysis of Downstream VDSL Adaptive Multichannel Partial FEXT Cancellation. IEEE Transactions on Communications, 2010, 58, 3021-3027.	4.9	10
121	Adaptive selective sidelobe canceller beamformer with applications in radio astronomy. , 2010, , .		2
122	Distributed game theoretic optimization of frequency selective interference channels: A cross layer approach. , 2010, , .		2
123	Sensitivity analysis of MVDR and MPDR beamformers. , 2010, , .		36
124	A greedy approach to the distributed Karhunen-Loève transform. , 2010, , .		2
125	A Rayleigh fading interference game with incomplete information. , 2010, , .		1
126	Competitive spectrum sharing in symmetric fading channel with incomplete information. , 2010, , .		2

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127	Synthetic aperture radio telescopes. IEEE Signal Processing Magazine, 2010, 27, 14-29.	4.6	67
128	Astronomy and cosmology [From the Guest editors. IEEE Signal Processing Magazine, 2010, 27, 13-13, 124.	4.6	1
129	A Low Complexity Blind Estimator of Narrowband Polynomial Phase Signals. IEEE Transactions on Signal Processing, 2010, 58, 4674-4683.	3.2	38
130	A Time-Varying Opportunistic Approach to Lifetime Maximization of Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 5307-5319.	3.2	57
131	Recursive Implementation of the Distributed Karhunen-Loève Transform. IEEE Transactions on Signal Processing, 2010, 58, 5320-5330.	3.2	23
132	Competitive Spectrum Management With Incomplete Information. IEEE Transactions on Signal Processing, 2010, 58, 6251-6265.	3.2	16
133	Convergence analysis of adaptive partial FEXT cancellation precoder for multichannel downstream VDSL. , 2010, , .		2
134	Stable matching for channel access control in cognitive radio systems. , 2010, , .		20
135	Likelihood-Ratio and channel based access for energy-efficient detection in wireless sensor networks. , 2010, , .		2
136	Pseudo Prior Belief Propagation for densely connected discrete graphs. , 2010, , .		9
137	A computationally efficient blind estimator of polynomial phase signals observed by a sensor array. , 2010, , .		1
138	Alternative bargaining solutions for the interference channel. , 2009, , .		5
139	MIMO decoding based on stochastic reconstruction from multiple projections. , 2009, , .		6
140	Time-varying Opportunistic Protocol for maximizing sensor networks lifetime. , 2009, , .		7
141	Iterative power pricing for distributed spectrum coordination in DSL. IEEE Transactions on Communications, 2009, 57, 948-953.	4.9	24
142	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
143	Bargaining over the interference channel with total power constraints. , 2009, , .		12
144	Parametric High Resolution Techniques for Radio Astronomical Imaging. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 670-684.	7.3	19

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145	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
146	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
147	Cooperative Game Theory and the Gaussian Interference Channel. IEEE Journal on Selected Areas in Communications, 2008, 26, 1078-1088.	9.7	110
148	Radio astronomical image formation using sparse reconstruction techniques. , 2008, , .		6
149	Joint adaptive waveform design and direction-of-arrival tracking. , 2008, , .		1
150	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
151	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
152	Adaptive Radar Waveform Design for Multiple Targets: Computational Aspects. , 2007, , .		6
153	Computing The Nash Bargaining Solution for the 2X2 Frequency Selective Interference Channel. , 2007, , .		1
154	Information theoretic radar waveform design for multiple targets. , 2007, , .		5
155	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
156	<pre></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> <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 Ada</pre>	7.3	185
157	Tracking a MIMO Channel Singular Value Decomposition via Projection Approximation. , 2006, , .		1
158	PERFORMANCE COMPARISON BETWEEN SIMPLIFIED MMSE AND MSSNR FOR MIMO CHANNEL SYSTEMS. , 2006, , .		0
159	Bargaining Over the Interference Channel. , 2006, , .		48
160	Information Theoretic Radar Waveform Design for Multiple Targets. , 2006, , .		7
161	Cover's test of rationality revisited: Computability aspects of hypothesis testing. , 2006, , .		0
162	Estimating sensor population via probabilistic sequential polling. IEEE Signal Processing Letters, 2005, 12, 395-398.	2.1	15

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163	Constant Modulus Beamforming. , 2005, , 299-351.		9
164	Array Signal Processing for Radio Astronomy. , 2005, , 231-249.		16
165	Array Signal Processing for Radio Astronomy. Experimental Astronomy, 2004, 17, 231-249.	1.6	18
166	Finite sample identifiability of multiple constant modulus sources. IEEE Transactions on Information Theory, 2003, 49, 2314-2319.	1.5	12
167	Blind separation of rotating machine sources: bilinear forms and convolutive mixtures. Neurocomputing, 2002, 49, 349-368.	3.5	50
168	\mathbb{R}^n and elementary end extensions of V_{κ} . Proceedings of the American Mathematical Society, 2001, 129, 2445-2450.	0.4	0
169	<title>Effect of adaptive interference suppression on radio astronomical image formation</title> . , 2000, 4015, 341.		1
170	Radio-astronomical imaging in the presence of strong radio interference. IEEE Transactions on Information Theory, 2000, 46, 1730-1747.	1.5	66
171	Multichannel Interference Mitigation Techniques in Radio Astronomy. Astrophysical Journal, Supplement Series, 2000, 131, 355-373.	3.0	100
172	Array calibration in the presence of multipath. IEEE Transactions on Signal Processing, 2000, 48, 53-59.	3.2	22
173	Maximum likelihood separation of constant modulus signals. IEEE Transactions on Signal Processing, 2000, 48, 2948-2952.	3.2	11
174	On the consistency of the Definable Tree Property on $\hat{\mu}_1$. Journal of Symbolic Logic, 2000, 65, 1204-1214.	0.4	7
175	The independence of. Journal of Symbolic Logic, 1999, 64, 350-362.	0.4	0
176	Direction-of-arrival estimation for constant modulus signals. IEEE Transactions on Signal Processing, 1999, 47, 3125-3129.	3.2	47
177	Signal processing for radio astronomical arrays. , 0, , .		22