

Shie Mannor

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9307300/shie-mannor-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

4,656
citations

30
h-index

65
g-index

165
ext. papers

5,997
ext. citations

3.5
avg, IF

5.73
L-index

#	Paper	IF	Citations
153	Inverse reinforcement learning in contextual MDPs. <i>Machine Learning</i> , 2021 , 110, 2295-2334	4	2
152	Adaptive Trust Region Policy Optimization: Global Convergence and Faster Rates for Regularized MDPs. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 5668-5675	5	6
151	Scalable Detection of Offensive and Non-compliant Content / Logo in Product Images 2020 ,		6
150	Multi-User Communication Networks: A Coordinated Multi-Armed Bandit Approach. <i>IEEE/ACM Transactions on Networking</i> , 2019 , 27, 2192-2207	3.8	4
149	How to Combine Tree-Search Methods in Reinforcement Learning. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 3494-3501	5	1
148	Chance-Constrained Outage Scheduling Using a Machine Learning Proxy. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2528-2540	7	14
147	Data-Driven Methods for Markov Decision Problems with Parameter Uncertainty 2019 , 101-129		1
146	On-Line Learning of Linear Dynamical Systems: Exponential Forgetting in Kalman Filters. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 4098-4105	5	1
145	Detecting Cascades from Weak Signatures. <i>IEEE Transactions on Network Science and Engineering</i> , 2018 , 5, 313-325	4.9	
144	Deep learning reconstruction of ultrashort pulses. <i>Optica</i> , 2018 , 5, 666	8.6	62
143	Source Estimation in Time Series and the Surprising Resilience of HMMs. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 5555-5569	2.8	1
142	Unit Commitment Using Nearest Neighbor as a Short-Term Proxy 2018 ,		5
141	Strategic Formation of Heterogeneous Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 751-763	14.2	1
140	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3323-3338	5.9	14
139	Learn on Source, Refine on Target: A Model Transfer Learning Framework with Random Forests. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 1811-1824	13.3	37
138	Nonstochastic Multi-Armed Bandits with Graph-Structured Feedback. <i>SIAM Journal on Computing</i> , 2017 , 46, 1785-1826	1.1	7
137	Supervised learning for optimal power flow as a real-time proxy 2017 ,		9

136	Encouraging Physical Activity in Patients With Diabetes: Intervention Using a Reinforcement Learning System. <i>Journal of Medical Internet Research</i> , 2017 , 19, e338	7.6	64
135	Non-parametric Online AUC Maximization. <i>Lecture Notes in Computer Science</i> , 2017 , 575-590	0.9	2
134	Encouraging Physical Activity in Patients With Diabetes Through Automatic Personalized Feedback via Reinforcement Learning Improves Glycemic Control. <i>Diabetes Care</i> , 2016 , 39, e59-60	14.6	13
133	Statistical Optimization in High Dimensions. <i>Operations Research</i> , 2016 , 64, 958-979	2.3	5
132	Multi-user lax communications: A multi-armed bandit approach 2016 ,		21
131	INSIGHT: Dynamic Traffic Management Using Heterogeneous Urban Data. <i>Lecture Notes in Computer Science</i> , 2016 , 22-26	0.9	1
130	Robust MDPs with k-Rectangular Uncertainty. <i>Mathematics of Operations Research</i> , 2016 , 41, 1484-1509	1.5	16
129	Distributed scenario-based optimization for asset management in a hierarchical decision making environment 2016 ,		4
128	Reinforcement Learning in Robust Markov Decision Processes. <i>Mathematics of Operations Research</i> , 2016 , 41, 1325-1353	1.5	3
127	Semantic locality and context-based prefetching using reinforcement learning 2015 ,		30
126	Reinforcement learning for the unit commitment problem 2015 ,		4
125	Local detection of infections in heterogeneous networks 2015 ,		2
124	Formation games of reliable networks 2015 ,		8
123	Convex Optimization: Algorithms and Complexity. <i>Foundations and Trends in Machine Learning</i> , 2015 , 8, 359-483	32.9	94
122	. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 3100-3120	2.8	6
121	Oracle-Based Robust Optimization via Online Learning. <i>Operations Research</i> , 2015 , 63, 628-638	2.3	23
120	The Perturbed Variation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015 , 37, 2119-30	3.3	
119	Localized Epidemic Detection in Networks with Overwhelming Noise. <i>Performance Evaluation Review</i> , 2015 , 43, 441-442	0.4	2

118	. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 619-631	4.8	44
117	Energy-efficient gear-shift LDPC decoders 2014 ,		3
116	A primal condition for approachability with partial monitoring. <i>Journal of Dynamics and Games</i> , 2014 , 1, 447-469	1.9	
115	Opportunistic Approachability and Generalized No-Regret Problems. <i>Mathematics of Operations Research</i> , 2014 , 39, 1057-1083	1.5	
114	Loop-Aware Memory Prefetching Using Code Block Working Sets 2014 ,		13
113	Network formation games with heterogeneous players and the internet structure 2014 ,		9
112	Heterogeneous Stream Processing and Crowdsourcing for Traffic Monitoring: Highlights. <i>Lecture Notes in Computer Science</i> , 2014 , 520-523	0.9	9
111	Concurrent Bandits and Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , 2014 , 66-81	0.9	26
110	Sub-sampling for Multi-armed Bandits. <i>Lecture Notes in Computer Science</i> , 2014 , 115-131	0.9	5
109	On information propagation in mobile call networks. <i>Social Network Analysis and Mining</i> , 2013 , 3, 521-541.2		5
108	Model selection in markovian processes 2013 ,		3
107	Algorithmic aspects of mean-variance optimization in Markov decision processes. <i>European Journal of Operational Research</i> , 2013 , 231, 645-653	5.6	18
106	Relaxed Half-Stochastic Belief Propagation. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1648-1659	6.9	5
105	Dynamics in tree formation games. <i>Games and Economic Behavior</i> , 2013 , 79, 1-29	1.1	7
104	Generating storylines from sensor data. <i>Pervasive and Mobile Computing</i> , 2013 , 9, 838-847	3.5	5
103	Outlier-Robust PCA: The High-Dimensional Case. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 546-572		57
102	. <i>IEEE Transactions on Communications</i> , 2013 , 61, 939-950	6.9	14
101	Time Series Analysis Using Geometric Template Matching. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 740-54	13.3	48

100	Detecting epidemics using highly noisy data 2013 ,		15
99	A State Action Frequency Approach to Throughput Maximization over Uncertain Wireless Channels. <i>Internet Mathematics</i> , 2013 , 9, 136-160	0	7
98	Sparse Algorithms Are Not Stable: A No-Free-Lunch Theorem. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 187-93	13.3	97
97	Robustness and generalization. <i>Machine Learning</i> , 2012 , 86, 391-423	4	114
96	Distributionally Robust Markov Decision Processes. <i>Mathematics of Operations Research</i> , 2012 , 37, 288-309	30.9	44
95	A Distributional Interpretation of Robust Optimization. <i>Mathematics of Operations Research</i> , 2012 , 37, 95-110	1.5	27
94	Dithered Belief Propagation Decoding. <i>IEEE Transactions on Communications</i> , 2012 , 60, 2042-2047	6.9	19
93	Optimization Under Probabilistic Envelope Constraints. <i>Operations Research</i> , 2012 , 60, 682-699	2.3	21
92	Bayesian Reinforcement Learning. <i>Adaptation, Learning, and Optimization</i> , 2012 , 359-386	0.7	15
91	Approximately optimal bidding policies for repeated first-price auctions. <i>Annals of Operations Research</i> , 2012 , 196, 189-199	3.2	
90	Network forensics 2012 ,		21
89	On identifying the causative network of an epidemic 2012 ,		15
88	Large scale real-time bidding in the smart grid: A mean field framework 2012 ,		14
87	Network forensics. <i>Performance Evaluation Review</i> , 2012 , 40, 223-234	0.4	12
86	Efficient Bidding in Dynamic Grid Markets. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2011 , 22, 1483-1496	3.7	9
85	Delayed Stochastic Decoding of LDPC Codes. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 5617-5626	4.8	87
84	A Robust Learning Approach to Repeated Auctions With Monitoring and Entry Fees. <i>IEEE Transactions on Games</i> , 2011 , 3, 302-315		4
83	Tracking Forecast Memories for Stochastic Decoding. <i>Journal of Signal Processing Systems</i> , 2011 , 63, 117-127	12.7	4

82	A state action frequency approach to throughput maximization over uncertain wireless channels 2011 ,		11
81	Regulation and double price mechanisms in markets with friction 2011 ,		2
80	Stochastic bandits with pathwise constraints 2011 ,		2
79	Activity Recognition with Mobile Phones. <i>Lecture Notes in Computer Science</i> , 2011 , 630-633	0.9	13
78	A Min-Sum Iterative Decoder Based on Pulsewidth Message Encoding. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010 , 57, 893-897	3.5	16
77	A distributional interpretation of robust optimization 2010 ,		1
76	Volatility and efficiency in markets with friction 2010 ,		2
75	Lowering Error Floors Using Dithered Belief Propagation 2010 ,		3
74	Relaxed half-stochastic decoding of LDPC codes over GF(q) 2010 ,		4
73	2010 ,		9
72	Generative models for rapid information propagation 2010 ,		9
71	Percentile Optimization for Markov Decision Processes with Parameter Uncertainty. <i>Operations Research</i> , 2010 , 58, 203-213	2.3	82
70	Majority-Based Tracking Forecast Memories for Stochastic LDPC Decoding. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 4883-4896	4.8	112
69	Relaxation Dynamics in Stochastic Iterative Decoders. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5955-5961	4.8	13
68	Stochastic Chase Decoding of Reed-Solomon Codes. <i>IEEE Communications Letters</i> , 2010 , 14, 863-865	3.8	10
67	Resource Allocation with Supply Adjustment in Distributed Computing Systems 2010 ,		16
66	A Geometric Proof of Calibration. <i>Mathematics of Operations Research</i> , 2010 , 35, 721-727	1.5	14
65	Robust Regression and Lasso. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 3561-3574	2.8	82

64	Adaptive Bases for Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2010 , 312-327	0.9	5
63	Bidding efficiently in repeated auctions with entry and observation costs 2009 ,		8
62	Regularized Fitted Q-Iteration for planning in continuous-space Markovian decision problems 2009 ,		18
61	Parametric regret in uncertain Markov decision processes 2009 ,		10
60	Risk sensitive robust support vector machines 2009 ,		4
59	Arbitrarily modulated Markov decision processes 2009 ,		5
58	Piecewise-stationary bandit problems with side observations 2009 ,		18
57	Approachability in repeated games: Computational aspects and a Stackelberg variant. <i>Games and Economic Behavior</i> , 2009 , 66, 315-325	1.1	1
56	Tracking Forecast Memories in stochastic decoders 2009 ,		19
55	. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1765-1778	5.9	22
54	A Kalman Filter Design Based on the Performance/Robustness Tradeoff. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1171-1175	5.9	20
53	High dimensional Principal Component Analysis with contaminated data 2009 ,		7
52	A Relaxed Half-Stochastic Iterative Decoder for LDPC Codes 2009 ,		10
51	Online learning in Markov decision processes with arbitrarily changing rewards and transitions 2009 ,		10
50	Markov Decision Processes with Arbitrary Reward Processes. <i>Mathematics of Operations Research</i> , 2009 , 34, 737-757	1.5	32
49	Fully Parallel Stochastic LDPC Decoders. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 5692-5703	4.8	138
48	Regret minimization in repeated matrix games with variable stage duration. <i>Games and Economic Behavior</i> , 2008 , 63, 227-258	1.1	10
47	Reinforcement learning in the presence of rare events 2008 ,		15

46	Strategies for Prediction Under Imperfect Monitoring. <i>Mathematics of Operations Research</i> , 2008 , 33, 513-528	1.5	8
45	Markov Decision Processes with Arbitrary Reward Processes. <i>Lecture Notes in Computer Science</i> , 2008 , 268-281	0.9	
44	Efficient Reinforcement Learning in Parameterized Models: Discrete Parameter Case. <i>Lecture Notes in Computer Science</i> , 2008 , 41-54	0.9	1
43	Efficient reinforcement learning in parameterized models: discrete parameters 2008 ,		2
42	Regularized Fitted Q-Iteration: Application to Planning. <i>Lecture Notes in Computer Science</i> , 2008 , 55-68	0.9	8
41	Local Two-Stage Myopic Dynamics for Network Formation Games. <i>Lecture Notes in Computer Science</i> , 2008 , 263-277	0.9	8
40	The cross-entropy method for power system combinatorial optimization problems 2007 ,		24
39	. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 1244-1259	14.2	2
38	Multi-agent learning for engineers. <i>Artificial Intelligence</i> , 2007 , 171, 417-422	3.6	36
37	An Inequality for Nearly Log-Concave Distributions With Applications to Learning. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 1043-1057	2.8	3
36	Online calibrated forecasts: Memory efficiency versus universality for learning in games. <i>Machine Learning</i> , 2007 , 67, 77-115	4	7
35	Percentile optimization in uncertain Markov decision processes with application to efficient exploration 2007 ,		11
34	Bias and Variance Approximation in Value Function Estimates. <i>Management Science</i> , 2007 , 53, 308-322	3.9	51
33	Non-Cooperative Design of Translucent Networks 2007 ,		6
32	2007 ,		1
31	An Area-Efficient FPGA-Based Architecture for Fully-Parallel Stochastic LDPC Decoding. <i>Signal Processing Systems Design and Implementation (siPS)</i> , <i>IEEE Workshop on</i> , 2007 ,		17
30	Survey of Stochastic Computation on Factor Graphs. <i>Multiple-Valued Logic (ISMVL)</i> , <i>Proceedings of the International Symposium on</i> , 2007 ,		16
29	Reinforcement Learning-Based Load Shared Sequential Routing. <i>Lecture Notes in Computer Science</i> , 2007 , 832-843	0.9	4

28	Strategies for Prediction Under Imperfect Monitoring. <i>Lecture Notes in Computer Science</i> , 2007 , 248-262	0.9	1
27	Network Formation: Bilateral Contracting and Myopic Dynamics 2007 , 191-207		11
26	Automatic basis function construction for approximate dynamic programming and reinforcement learning 2006 ,		63
25	Design of H_1 -optimal controllers with flexible disturbance rejection level. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 868-873	5.9	1
24	Stochastic decoding of LDPC codes. <i>IEEE Communications Letters</i> , 2006 , 10, 716-718	3.8	104
23	Online Learning with Constraints. <i>Lecture Notes in Computer Science</i> , 2006 , 529-543	0.9	0
22	A contract-based model for directed network formation. <i>Games and Economic Behavior</i> , 2006 , 56, 201-224	1	41
21	Online Learning with Variable Stage Duration. <i>Lecture Notes in Computer Science</i> , 2006 , 408-422	0.9	
20	. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1712-1724	5.9	47
19	On the Empirical State-Action Frequencies in Markov Decision Processes Under General Policies. <i>Mathematics of Operations Research</i> , 2005 , 30, 545-561	1.5	17
18	A Tutorial on the Cross-Entropy Method. <i>Annals of Operations Research</i> , 2005 , 134, 19-67	3.2	1086
17	Basis Function Adaptation in Temporal Difference Reinforcement Learning. <i>Annals of Operations Research</i> , 2005 , 134, 215-238	3.2	89
16	Reinforcement learning with Gaussian processes 2005 ,		112
15	The cross entropy method for classification 2005 ,		68
14	An Inequality for Nearly Log-Concave Distributions with Applications to Learning. <i>Lecture Notes in Computer Science</i> , 2004 , 534-548	0.9	
13	The kernel recursive least-squares algorithm. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 2275-2285	4.8	600
12	Reinforcement Learning for Average Reward Zero-Sum Games. <i>Lecture Notes in Computer Science</i> , 2004 , 49-63	0.9	
11	Lower Bounds on the Sample Complexity of Exploration in the Multi-armed Bandit Problem. <i>Lecture Notes in Computer Science</i> , 2003 , 418-432	0.9	11

10	The Empirical Bayes Envelope and Regret Minimization in Competitive Markov Decision Processes. <i>Mathematics of Operations Research</i> , 2003 , 28, 327-345	1.5	16
9	On-Line Learning with Imperfect Monitoring. <i>Lecture Notes in Computer Science</i> , 2003 , 552-566	0.9	4
8	On the Existence of Linear Weak Learners and Applications to Boosting. <i>Machine Learning</i> , 2002 , 48, 219-251	4	6
7	Q-Cut Dynamic Discovery of Sub-goals in Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2002 , 295-306	0.9	51
6	Sparse Online Greedy Support Vector Regression. <i>Lecture Notes in Computer Science</i> , 2002 , 84-96	0.9	19
5	PAC Bounds for Multi-armed Bandit and Markov Decision Processes. <i>Lecture Notes in Computer Science</i> , 2002 , 255-270	0.9	60
4	The Consistency of Greedy Algorithms for Classification. <i>Lecture Notes in Computer Science</i> , 2002 , 319-333	0.9	15
3	Geometric Bounds for Generalization in Boosting. <i>Lecture Notes in Computer Science</i> , 2001 , 461-472	0.9	5
2	Adaptive Strategies and Regret Minimization in Arbitrarily Varying Markov Environments. <i>Lecture Notes in Computer Science</i> , 2001 , 128-142	0.9	1
1	Approximate Value Iteration with Temporally Extended Actions. <i>Journal of Artificial Intelligence Research</i> , 53 , 375-438	4	3