

# Shie Mannor

## List of Publications by Citations

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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	A Tutorial on the Cross-Entropy Method. <i>Annals of Operations Research</i> , <b>2005</b> , 134, 19-67	3.2	1086
152	The kernel recursive least-squares algorithm. <i>IEEE Transactions on Signal Processing</i> , <b>2004</b> , 52, 2275-2285	4.8	600
151	Fully Parallel Stochastic LDPC Decoders. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 5692-5703	4.8	138
150	Robustness and generalization. <i>Machine Learning</i> , <b>2012</b> , 86, 391-423	4	114
149	Majority-Based Tracking Forecast Memories for Stochastic LDPC Decoding. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 4883-4896	4.8	112
148	Reinforcement learning with Gaussian processes <b>2005</b> ,		112
147	Stochastic decoding of LDPC codes. <i>IEEE Communications Letters</i> , <b>2006</b> , 10, 716-718	3.8	104
146	Sparse Algorithms Are Not Stable: A No-Free-Lunch Theorem. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2012</b> , 34, 187-93	13.3	97
145	Convex Optimization: Algorithms and Complexity. <i>Foundations and Trends in Machine Learning</i> , <b>2015</b> , 8, 359-483	32.9	94
144	Basis Function Adaptation in Temporal Difference Reinforcement Learning. <i>Annals of Operations Research</i> , <b>2005</b> , 134, 215-238	3.2	89
143	Delayed Stochastic Decoding of LDPC Codes. <i>IEEE Transactions on Signal Processing</i> , <b>2011</b> , 59, 5617-5626	4.8	87
142	Percentile Optimization for Markov Decision Processes with Parameter Uncertainty. <i>Operations Research</i> , <b>2010</b> , 58, 203-213	2.3	82
141	Robust Regression and Lasso. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 3561-3574	2.8	82
140	The cross entropy method for classification <b>2005</b> ,		68
139	Encouraging Physical Activity in Patients With Diabetes: Intervention Using a Reinforcement Learning System. <i>Journal of Medical Internet Research</i> , <b>2017</b> , 19, e338	7.6	64
138	Automatic basis function construction for approximate dynamic programming and reinforcement learning <b>2006</b> ,		63
137	Deep learning reconstruction of ultrashort pulses. <i>Optica</i> , <b>2018</b> , 5, 666	8.6	62

136	PAC Bounds for Multi-armed Bandit and Markov Decision Processes. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 255-270	0.9	60
135	Outlier-Robust PCA: The High-Dimensional Case. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 546-572		57
134	Bias and Variance Approximation in Value Function Estimates. <i>Management Science</i> , <b>2007</b> , 53, 308-322	3.9	51
133	Q-Cut Dynamic Discovery of Sub-goals in Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 295-306	0.9	51
132	Time Series Analysis Using Geometric Template Matching. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 740-54	13.3	48
131	. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1712-1724	5.9	47
130	. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 619-631	4.8	44
129	Distributionally Robust Markov Decision Processes. <i>Mathematics of Operations Research</i> , <b>2012</b> , 37, 288-309	3.0	44
128	A contract-based model for directed network formation. <i>Games and Economic Behavior</i> , <b>2006</b> , 56, 201-224	4.1	41
127	Learn on Source, Refine on Target: A Model Transfer Learning Framework with Random Forests. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 1811-1824	13.3	37
126	Multi-agent learning for engineers. <i>Artificial Intelligence</i> , <b>2007</b> , 171, 417-422	3.6	36
125	Markov Decision Processes with Arbitrary Reward Processes. <i>Mathematics of Operations Research</i> , <b>2009</b> , 34, 737-757	1.5	32
124	Semantic locality and context-based prefetching using reinforcement learning <b>2015</b> ,		30
123	A Distributional Interpretation of Robust Optimization. <i>Mathematics of Operations Research</i> , <b>2012</b> , 37, 95-110	1.5	27
122	Concurrent Bandits and Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 66-81	0.9	26
121	The cross-entropy method for power system combinatorial optimization problems <b>2007</b> ,		24
120	Oracle-Based Robust Optimization via Online Learning. <i>Operations Research</i> , <b>2015</b> , 63, 628-638	2.3	23
119	. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1765-1778	5.9	22

118	Optimization Under Probabilistic Envelope Constraints. <i>Operations Research</i> , <b>2012</b> , 60, 682-699	2.3	21
117	Network forensics <b>2012</b> ,		21
116	Multi-user lax communications: A multi-armed bandit approach <b>2016</b> ,		21
115	A Kalman Filter Design Based on the Performance/Robustness Tradeoff. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1171-1175	5.9	20
114	Dithered Belief Propagation Decoding. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 2042-2047	6.9	19
113	Tracking Forecast Memories in stochastic decoders <b>2009</b> ,		19
112	Sparse Online Greedy Support Vector Regression. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 84-96	0.9	19
111	Algorithmic aspects of mean-variance optimization in Markov decision processes. <i>European Journal of Operational Research</i> , <b>2013</b> , 231, 645-653	5.6	18
110	Regularized Fitted Q-Iteration for planning in continuous-space Markovian decision problems <b>2009</b> ,		18
109	Piecewise-stationary bandit problems with side observations <b>2009</b> ,		18
108	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> , <b>2007</b> ,		17
107	On the Empirical State-Action Frequencies in Markov Decision Processes Under General Policies. <i>Mathematics of Operations Research</i> , <b>2005</b> , 30, 545-561	1.5	17
106	A Min-Sum Iterative Decoder Based on Pulsewidth Message Encoding. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2010</b> , 57, 893-897	3.5	16
105	Resource Allocation with Supply Adjustment in Distributed Computing Systems <b>2010</b> ,		16
104	Survey of Stochastic Computation on Factor Graphs. <i>Multiple-Valued Logic (ISMVL)</i> , <i>Proceedings of the International Symposium on</i> , <b>2007</b> ,		16
103	The Empirical Bayes Envelope and Regret Minimization in Competitive Markov Decision Processes. <i>Mathematics of Operations Research</i> , <b>2003</b> , 28, 327-345	1.5	16
102	Robust MDPs with k-Rectangular Uncertainty. <i>Mathematics of Operations Research</i> , <b>2016</b> , 41, 1484-1509	1.5	16
101	Bayesian Reinforcement Learning. <i>Adaptation, Learning, and Optimization</i> , <b>2012</b> , 359-386	0.7	15

100	Detecting epidemics using highly noisy data <b>2013</b> ,		15
99	On identifying the causative network of an epidemic <b>2012</b> ,		15
98	Reinforcement learning in the presence of rare events <b>2008</b> ,		15
97	The Consistency of Greedy Algorithms for Classification. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 319-333	9	15
96	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3323-3338	5.9	14
95	Chance-Constrained Outage Scheduling Using a Machine Learning Proxy. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 2528-2540	7	14
94	. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 939-950	6.9	14
93	Large scale real-time bidding in the smart grid: A mean field framework <b>2012</b> ,		14
92	A Geometric Proof of Calibration. <i>Mathematics of Operations Research</i> , <b>2010</b> , 35, 721-727	1.5	14
91	Encouraging Physical Activity in Patients With Diabetes Through Automatic Personalized Feedback via Reinforcement Learning Improves Glycemic Control. <i>Diabetes Care</i> , <b>2016</b> , 39, e59-60	14.6	13
90	Loop-Aware Memory Prefetching Using Code Block Working Sets <b>2014</b> ,		13
89	Relaxation Dynamics in Stochastic Iterative Decoders. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 5955-5961	4.8	13
88	Activity Recognition with Mobile Phones. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 630-633	0.9	13
87	Network forensics. <i>Performance Evaluation Review</i> , <b>2012</b> , 40, 223-234	0.4	12
86	A state action frequency approach to throughput maximization over uncertain wireless channels <b>2011</b> ,		11
85	Percentile optimization in uncertain Markov decision processes with application to efficient exploration <b>2007</b> ,		11
84	Lower Bounds on the Sample Complexity of Exploration in the Multi-armed Bandit Problem. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 418-432	0.9	11
83	Network Formation: Bilateral Contracting and Myopic Dynamics <b>2007</b> , 191-207		11

82	Stochastic Chase Decoding of Reed-Solomon Codes. <i>IEEE Communications Letters</i> , <b>2010</b> , 14, 863-865	3.8	10
81	Parametric regret in uncertain Markov decision processes <b>2009</b> ,		10
80	A Relaxed Half-Stochastic Iterative Decoder for LDPC Codes <b>2009</b> ,		10
79	Online learning in Markov decision processes with arbitrarily changing rewards and transitions <b>2009</b> ,		10
78	Regret minimization in repeated matrix games with variable stage duration. <i>Games and Economic Behavior</i> , <b>2008</b> , 63, 227-258	1.1	10
77	Supervised learning for optimal power flow as a real-time proxy <b>2017</b> ,		9
76	Network formation games with heterogeneous players and the internet structure <b>2014</b> ,		9
75	Efficient Bidding in Dynamic Grid Markets. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2011</b> , 22, 1483-1496	3.7	9
74	<b>2010</b> ,		9
73	Generative models for rapid information propagation <b>2010</b> ,		9
72	Heterogeneous Stream Processing and Crowdsourcing for Traffic Monitoring: Highlights. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 520-523	0.9	9
71	Formation games of reliable networks <b>2015</b> ,		8
70	Bidding efficiently in repeated auctions with entry and observation costs <b>2009</b> ,		8
69	Strategies for Prediction Under Imperfect Monitoring. <i>Mathematics of Operations Research</i> , <b>2008</b> , 33, 513-528	1.5	8
68	Regularized Fitted Q-Iteration: Application to Planning. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 55-68	0.9	8
67	Local Two-Stage Myopic Dynamics for Network Formation Games. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 263-277	0.9	8
66	Dynamics in tree formation games. <i>Games and Economic Behavior</i> , <b>2013</b> , 79, 1-29	1.1	7
65	Nonstochastic Multi-Armed Bandits with Graph-Structured Feedback. <i>SIAM Journal on Computing</i> , <b>2017</b> , 46, 1785-1826	1.1	7

64	A State Action Frequency Approach to Throughput Maximization over Uncertain Wireless Channels. <i>Internet Mathematics</i> , <b>2013</b> , 9, 136-160	0	7
63	High dimensional Principal Component Analysis with contaminated data <b>2009</b> ,		7
62	Online calibrated forecasts: Memory efficiency versus universality for learning in games. <i>Machine Learning</i> , <b>2007</b> , 67, 77-115	4	7
61	. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 3100-3120	2.8	6
60	Non-Cooperative Design of Translucent Networks <b>2007</b> ,		6
59	On the Existence of Linear Weak Learners and Applications to Boosting. <i>Machine Learning</i> , <b>2002</b> , 48, 219-251	4	6
58	Adaptive Trust Region Policy Optimization: Global Convergence and Faster Rates for Regularized MDPs. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 5668-5675	5	6
57	Scalable Detection of Offensive and Non-compliant Content / Logo in Product Images <b>2020</b> ,		6
56	On information propagation in mobile call networks. <i>Social Network Analysis and Mining</i> , <b>2013</b> , 3, 521-541.2		5
55	Relaxed Half-Stochastic Belief Propagation. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 1648-1659	6.9	5
54	Generating storylines from sensor data. <i>Pervasive and Mobile Computing</i> , <b>2013</b> , 9, 838-847	3.5	5
53	Arbitrarily modulated Markov decision processes <b>2009</b> ,		5
52	Adaptive Bases for Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 312-327	0.9	5
51	Sub-sampling for Multi-armed Bandits. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 115-131	0.9	5
50	Statistical Optimization in High Dimensions. <i>Operations Research</i> , <b>2016</b> , 64, 958-979	2.3	5
49	Unit Commitment Using Nearest Neighbor as a Short-Term Proxy <b>2018</b> ,		5
48	Geometric Bounds for Generalization in Boosting. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 461-472	0.9	5
47	Multi-User Communication Networks: A Coordinated Multi-Armed Bandit Approach. <i>IEEE/ACM Transactions on Networking</i> , <b>2019</b> , 27, 2192-2207	3.8	4

46	Reinforcement learning for the unit commitment problem <b>2015</b> ,		4
45	A Robust Learning Approach to Repeated Auctions With Monitoring and Entry Fees. <i>IEEE Transactions on Games</i> , <b>2011</b> , 3, 302-315		4
44	Tracking Forecast Memories for Stochastic Decoding. <i>Journal of Signal Processing Systems</i> , <b>2011</b> , 63, 117-127		4
43	Relaxed half-stochastic decoding of LDPC codes over GF(q) <b>2010</b> ,		4
42	Risk sensitive robust support vector machines <b>2009</b> ,		4
41	On-Line Learning with Imperfect Monitoring. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 552-566	0.9	4
40	Reinforcement Learning-Based Load Shared Sequential Routing. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 832-843	0.9	4
39	Distributed scenario-based optimization for asset management in a hierarchical decision making environment <b>2016</b> ,		4
38	Energy-efficient gear-shift LDPC decoders <b>2014</b> ,		3
37	Model selection in markovian processes <b>2013</b> ,		3
36	Lowering Error Floors Using Dithered Belief Propagation <b>2010</b> ,		3
35	An Inequality for Nearly Log-Concave Distributions With Applications to Learning. <i>IEEE Transactions on Information Theory</i> , <b>2007</b> , 53, 1043-1057	2.8	3
34	Approximate Value Iteration with Temporally Extended Actions. <i>Journal of Artificial Intelligence Research</i> , <b>53</b> , 375-438	4	3
33	Reinforcement Learning in Robust Markov Decision Processes. <i>Mathematics of Operations Research</i> , <b>2016</b> , 41, 1325-1353	1.5	3
32	Local detection of infections in heterogeneous networks <b>2015</b> ,		2
31	Volatility and efficiency in markets with friction <b>2010</b> ,		2
30	Regulation and double price mechanisms in markets with friction <b>2011</b> ,		2
29	Stochastic bandits with pathwise constraints <b>2011</b> ,		2



28	. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2007</b> , 25, 1244-1259	14.2	2
27	Localized Epidemic Detection in Networks with Overwhelming Noise. <i>Performance Evaluation Review</i> , <b>2015</b> , 43, 441-442	0.4	2
26	Efficient reinforcement learning in parameterized models: discrete parameters <b>2008</b> ,		2
25	Non-parametric Online AUC Maximization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 575-590	0.9	2
24	Inverse reinforcement learning in contextual MDPs. <i>Machine Learning</i> , <b>2021</b> , 110, 2295-2334	4	2
23	Strategic Formation of Heterogeneous Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 751-763	14.2	1
22	How to Combine Tree-Search Methods in Reinforcement Learning. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 3494-3501	5	1
21	Source Estimation in Time Series and the Surprising Resilience of HMMs. <i>IEEE Transactions on Information Theory</i> , <b>2018</b> , 64, 5555-5569	2.8	1
20	Data-Driven Methods for Markov Decision Problems with Parameter Uncertainty <b>2019</b> , 101-129		1
19	A distributional interpretation of robust optimization <b>2010</b> ,		1
18	Approachability in repeated games: Computational aspects and a Stackelberg variant. <i>Games and Economic Behavior</i> , <b>2009</b> , 66, 315-325	1.1	1
17	<b>2007</b> ,		1
16	Design of $H_1$ -optimal controllers with flexible disturbance rejection level. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 868-873	5.9	1
15	Efficient Reinforcement Learning in Parameterized Models: Discrete Parameter Case. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 41-54	0.9	1
14	Strategies for Prediction Under Imperfect Monitoring. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 248-262	0.9	1
13	INSIGHT: Dynamic Traffic Management Using Heterogeneous Urban Data. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 22-26	0.9	1
12	On-Line Learning of Linear Dynamical Systems: Exponential Forgetting in Kalman Filters. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 4098-4105	5	1
11	Adaptive Strategies and Regret Minimization in Arbitrarily Varying Markov Environments. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 128-142	0.9	1

10	Online Learning with Constraints. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 529-543	0.9	0
9	Detecting Cascades from Weak Signatures. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2018</b> , 5, 313-325	4.9	
8	A primal condition for approachability with partial monitoring. <i>Journal of Dynamics and Games</i> , <b>2014</b> , 1, 447-469	1.9	
7	Opportunistic Approachability and Generalized No-Regret Problems. <i>Mathematics of Operations Research</i> , <b>2014</b> , 39, 1057-1083	1.5	
6	The Perturbed Variation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 2119-3033	3.3	
5	Approximately optimal bidding policies for repeated first-price auctions. <i>Annals of Operations Research</i> , <b>2012</b> , 196, 189-199	3.2	
4	An Inequality for Nearly Log-Concave Distributions with Applications to Learning. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 534-548	0.9	
3	Reinforcement Learning for Average Reward Zero-Sum Games. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 49-63	0.9	
2	Online Learning with Variable Stage Duration. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 408-422	0.9	
1	Markov Decision Processes with Arbitrary Reward Processes. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 268-281	0.9	