

# A Generalization Error for Q-Learning

Journal of Machine Learning Research  
6, 1073-1097

Citation Report

#	ARTICLE	IF	CITATIONS
1	Learning near-optimal policies with Bellman-residual minimization based fitted policy iteration and a single sample path. <i>Machine Learning</i> , 2008, 71, 89-129.	3.4	104
2	Reinforcement learning design for cancer clinical trials. <i>Statistics in Medicine</i> , 2009, 28, 3294-3315.	0.8	179
3	Inference for non-regular parameters in optimal dynamic treatment regimes. <i>Statistical Methods in Medical Research</i> , 2010, 19, 317-343.	0.7	112
4	Dynamic Treatment Regimes for Managing Chronic Health Conditions: A Statistical Perspective. <i>American Journal of Public Health</i> , 2011, 101, 40-45.	1.5	27
5	Reinforcement Learning Strategies for Clinical Trials in Nonsmall Cell Lung Cancer. <i>Biometrics</i> , 2011, 67, 1422-1433.	0.8	135
6	Performance guarantees for individualized treatment rules. <i>Annals of Statistics</i> , 2011, 39, 1180-1210.	1.4	341
7	Q-learning with censored data. <i>Annals of Statistics</i> , 2012, 40, 529-560.	1.4	98
8	Q-learning for estimating optimal dynamic treatment rules from observational data. <i>Canadian Journal of Statistics</i> , 2012, 40, 629-645.	0.6	50
9	Estimating the Optimal Dynamic Antipsychotic Treatment Regime: Evidence from the Sequential Multiple-Assignment Randomized Clinical Antipsychotic Trials of Intervention and Effectiveness Schizophrenia Study. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 577-599.	0.5	36
10	Recent development on statistical methods for personalized medicine discovery. <i>Frontiers of Medicine</i> , 2013, 7, 102-110.	1.5	18
11	Inference for Optimal Dynamic Treatment Regimes Using an Adaptive $m$ -Out-of- $n$ Bootstrap Scheme. <i>Biometrics</i> , 2013, 69, 714-723.	0.8	81
12	Dynamic Treatment Regimes. <i>Annual Review of Statistics and Its Application</i> , 2014, 1, 447-464.	4.1	136
13	Interactive model building for Q-learning. <i>Biometrika</i> , 2014, 101, 831-847.	1.3	50
14	Inference about the expected performance of a data-driven dynamic treatment regime. <i>Clinical Trials</i> , 2014, 11, 408-417.	0.7	38
15	Estimation of optimal dynamic treatment regimes. <i>Clinical Trials</i> , 2014, 11, 400-407.	0.7	16
16	Q-Learning: Flexible Learning About Useful Utilities. <i>Statistics in Biosciences</i> , 2014, 6, 223-243.	0.6	52
17	Dynamic treatment regimes: Technical challenges and applications. <i>Electronic Journal of Statistics</i> , 2014, 8, 1225-1272.	0.4	98
18	Sequential Multiple Assignment Randomized Trial (SMART) with Adaptive Randomization for Quality Improvement in Depression Treatment Program. <i>Biometrics</i> , 2015, 71, 450-459.	0.8	40

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19	Optimization of multi-stage dynamic treatment regimes utilizing accumulated data. <i>Statistics in Medicine</i> , 2015, 34, 3424-3443.	0.8	19
20	New Statistical Learning Methods for Estimating Optimal Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2015, 110, 583-598.	1.8	171
21	Who will benefit from antidepressants in the acute treatment of bipolar depression? A reanalysis of the STEP-BD study by Sachs et al. 2007, using Q-learning. <i>International Journal of Bipolar Disorders</i> , 2015, 3, 7.	0.8	14
22	Feature selection and feature learning for high-dimensional batch reinforcement learning: A survey. <i>International Journal of Automation and Computing</i> , 2015, 12, 229-242.	4.5	28
23	A case study of SMART attributes: a qualitative assessment of generalizability, retention rate, and trial quality. <i>Trials</i> , 2016, 17, 242.	0.7	9
24	Using pilot data to size a two-arm randomized trial to find a nearly optimal personalized treatment strategy. <i>Statistics in Medicine</i> , 2016, 35, 1245-1256.	0.8	19
25	Q-learning residual analysis: application to the effectiveness of sequences of antipsychotic medications for patients with schizophrenia. <i>Statistics in Medicine</i> , 2016, 35, 2221-2234.	0.8	14
27	Estimating optimal treatment regimes via subgroup identification in randomized control trials and observational studies. <i>Statistics in Medicine</i> , 2016, 35, 3285-3302.	0.8	37
28	Estimating Optimal Shared-Parameter Dynamic Regimens with Application to a Multistage Depression Clinical Trial. <i>Biometrics</i> , 2016, 72, 865-876.	0.8	11
29	Interactive Q-Learning for Quantiles. <i>Journal of the American Statistical Association</i> , 2017, 112, 638-649.	1.8	30
30	Tools for the Precision Medicine Era: How to Develop Highly Personalized Treatment Recommendations From Cohort and Registry Data Using Q-Learning. <i>American Journal of Epidemiology</i> , 2017, 186, 160-172.	1.6	40
31	Using SMART design to improve symptom management among cancer patients: A study protocol. <i>Research in Nursing and Health</i> , 2017, 40, 501-511.	0.8	13
32	Doubly robust estimation of optimal treatment regimes for survival data with application to an HIV/AIDS study. <i>Annals of Applied Statistics</i> , 2017, 11, 1763-1786.	0.5	19
33	A unified approach for subgroup identification and individualized treatment recommendation with applications to randomized control trials and observational studies. <i>Model Assisted Statistics and Applications</i> , 2017, 12, 287-301.	0.2	0
34	QLBS: Q-Learner in the Black-Scholes (-Merton) Worlds. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	22
35	An interpretable health behavioral intervention policy for mobile device users. <i>IBM Journal of Research and Development</i> , 2018, 62, 4:1-4:6.	3.2	6
36	Quantile-Optimal Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2018, 113, 1243-1254.	1.8	35
37	A Bayesian Machine Learning Approach for Optimizing Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2018, 113, 1255-1267.	1.8	23

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38	Estimating the cumulative incidence function of dynamic treatment regimes. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2018, 181, 85-106.	0.6	6
39	Incorporating Patient Preferences into Estimation of Optimal Individualized Treatment Rules. <i>Biometrics</i> , 2018, 74, 18-26.	0.8	24
40	Outcome-Weighted Learning for Personalized Medicine with Multiple Treatment Options. , 2018, 2018, 565-574.		5
41	Market Self-Learning of Signals, Impact and Optimal Trading: Invisible Hand Inference with Free Energy (Or, How We Learned to Stop Worrying and Love Bounded Rationality). <i>SSRN Electronic Journal</i> , 2018, , .	0.4	3
44	The QLBS Q-Learner Goes NuQLear: Fitted Q Iteration, Inverse RL, and Option Portfolios. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
45	Constructing dynamic treatment regimes over indefinite time horizons. <i>Biometrika</i> , 2018, 105, 963-977.	1.3	24
46	Protocol for the ROSE sustainment (ROSES) study, a sequential multiple assignment randomized trial to determine the minimum necessary intervention to maintain a postpartum depression prevention program in prenatal clinics serving low-income women. <i>Implementation Science</i> , 2018, 13, 115.	2.5	23
47	High-dimensional inference for personalized treatment decision. <i>Electronic Journal of Statistics</i> , 2018, 12, 2074-2089.	0.4	19
48	Optimal Treatment Allocations in Space and Time for On-Line Control of an Emerging Infectious Disease. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 743-789.	0.5	20
49	The QLBS Q-Learner goes NuQLear: fitted Q iteration, inverse RL, and option portfolios. <i>Quantitative Finance</i> , 2019, 19, 1543-1553.	0.9	20
50	Estimation of Individualized Decision Rules Based on an Optimized Covariate-Dependent Equivalent of Random Outcomes. <i>SIAM Journal on Optimization</i> , 2019, 29, 2337-2362.	1.2	6
51	Precision Medicine. <i>Annual Review of Statistics and Its Application</i> , 2019, 6, 263-286.	4.1	176
52	Robust regression for optimal individualized treatment rules. <i>Statistics in Medicine</i> , 2019, 38, 2059-2073.	0.8	11
54	Estimating Dynamic Treatment Regimes in Mobile Health Using V-Learning. <i>Journal of the American Statistical Association</i> , 2020, 115, 692-706.	1.8	56
55	Multi-Armed Angle-Based Direct Learning for Estimating Optimal Individualized Treatment Rules With Various Outcomes. <i>Journal of the American Statistical Association</i> , 2020, 115, 678-691.	1.8	23
56	A single-index model with multiple-links. <i>Journal of Statistical Planning and Inference</i> , 2020, 205, 115-128.	0.4	5
57	<i>i</i>Fusion: Individualized Fusion Learning. <i>Journal of the American Statistical Association</i> , 2020, 115, 1251-1267.	1.8	9
58	High-Dimensional Precision Medicine From Patient-Derived Xenografts. <i>Journal of the American Statistical Association</i> , 2021, 116, 1140-1154.	1.8	5

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59	Resampling-based confidence intervals for model-free robust inference on optimal treatment regimes. <i>Biometrics</i> , 2021, 77, 465-476.	0.8	6
60	Ascertaining properties of weighting in the estimation of optimal treatment regimes under monotone missingness. <i>Statistics in Medicine</i> , 2020, 39, 3503-3520.	0.8	1
61	Estimation for optimal treatment regimes with survival data under semiparametric model. <i>Communications in Statistics - Theory and Methods</i> , 2020, , 1-12.	0.6	0
62	Adaptive treatment strategies for chronic conditions: shared-parameter G-estimation with an application to rheumatoid arthritis. <i>Biostatistics</i> , 2022, 23, 430-448.	0.9	2
63	A sparse additive model for treatment effect-modifier selection. <i>Biostatistics</i> , 2020, , .	0.9	5
64	A constrained single-index regression for estimating interactions between a treatment and covariates. <i>Biometrics</i> , 2021, 77, 506-518.	0.8	4
65	Learning When-to-Treat Policies. <i>Journal of the American Statistical Association</i> , 2021, 116, 392-409.	1.8	20
66	Stochastic Tree Search for Estimating Optimal Dynamic Treatment Regimes. <i>Journal of the American Statistical Association</i> , 2021, 116, 421-432.	1.8	11
67	Introduction to the Theory and Methods Special Issue on Precision Medicine and Individualized Policy Discovery. <i>Journal of the American Statistical Association</i> , 2021, 116, 159-161.	1.8	3
69	A scoping review of studies using observational data to optimise dynamic treatment regimens. <i>BMC Medical Research Methodology</i> , 2021, 21, 39.	1.4	13
70	Evaluating the Effectiveness of Personalized Medicine With Software. <i>Frontiers in Big Data</i> , 2021, 4, 572532.	1.8	5
71	Dynamic Treatment Regimes. , 2012, , 127-148.		5
72	The Data: Observational Studies and Sequentially Randomized Trials. <i>Statistics in the Health Sciences</i> , 2013, , 9-30.	0.2	1
73	Statistical Reinforcement Learning. <i>Statistics in the Health Sciences</i> , 2013, , 31-52.	0.2	7
74	Building Health Application Recommender System Using Partially Penalized Regression. <i>Emerging Topics in Statistics and Biostatistics</i> , 2020, , 105-123.	0.1	2
75	Reinforcement Learning with a Bilinear Q Function. <i>Lecture Notes in Computer Science</i> , 2012, , 78-88.	1.0	5
76	Change-point detection for infinite horizon dynamic treatment regimes. <i>Statistical Methods in Medical Research</i> , 2017, 26, 1590-1604.	0.7	2
77	iqLearn: Interactive Q-Learning in R. <i>Journal of Statistical Software</i> , 2015, 64, .	1.8	11

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78	Evaluation of a Stepped-Care eHealth HIV Prevention Program for Diverse Adolescent Men Who Have Sex With Men: Protocol for a Hybrid Type 1 Effectiveness Implementation Trial of SMART. JMIR Research Protocols, 2020, 9, e19701.	0.5	26
79	Trials of Intervention Principles: Evaluation Methods for Evolving Behavioral Intervention Technologies. Journal of Medical Internet Research, 2015, 17, e166.	2.1	172
80	Estimation of treatment policies based on functional predictors. Statistica Sinica, 2014, 24, 1461-1485.	0.2	21
81	Functional additive models for optimizing individualized treatment rules. Biometrics, 2023, 79, 113-126.	0.8	2
83	MQLV: Optimal Policy of Money Management in Retail Banking with Q-Learning. Lecture Notes in Computer Science, 2020, , 1-15.	1.0	0
85	Entropy Learning for Dynamic Treatment Regimes. Statistica Sinica, 2020, 29, 1633-1655.	0.2	3
86	Smart Learning Using Big and Small Data for Mobile and IOT e-Health. , 2020, , 607-636.		1
87	The Impact of Racial and Ethnic Health Disparities in Diabetes Management on Clinical Outcomes: A Reinforcement Learning Analysis of Health Inequity Among Youth and Young Adults in the SEARCH for Diabetes in Youth Study. Diabetes Care, 2022, 45, 108-118.	4.3	15
89	A First Step Towards Behavioral Coaching for Managing Stress: A Case Study on Optimal Policy Estimation with Multi-stage Threshold Q-learning. AMIA ... Annual Symposium proceedings, 2017, 2017, 930-939.	0.2	3
90	Optimal treatment allocations in space and time for on-line control of an emerging infectious disease. Journal of the Royal Statistical Society Series C: Applied Statistics, 2018, 67, 743-770.	0.5	9
91	Discussion of Entropy Learning for Dynamic Treatment Regimes. Statistica Sinica, 2019, 29, 1662-1665.	0.2	0
92	Data-driven storage operations: Cross-commodity backtest and structured policies. Production and Operations Management, 2022, 31, 2438-2456.	2.1	6
93	Estimation and Optimization of Composite Outcomes. Journal of Machine Learning Research, 2021, 22, .	62.4	0
94	Ranking Tailoring Variables for Constructing Individualized Treatment Rules: An Application to Schizophrenia. Journal of the Royal Statistical Society Series C: Applied Statistics, 2022, 71, 309-330.	0.5	1
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96	Model-free screening for variables with treatment interaction. Statistical Methods in Medical Research, 0, , 096228022211026.	0.7	0
98	Dynamic Treatment Regimes for Optimizing Healthcare. Springer Series in Supply Chain Management, 2022, , 391-444.	0.5	2
99	Transfer Learning of Individualized Treatment Rules from Experimental to Real-World Data. Journal of Computational and Graphical Statistics, 2023, 32, 1036-1045.	0.9	3

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