

Elad Yom-Tov

List of Publications by Year in descending order

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Version: 2024-02-01

141
papers

3,699
citations

257450

24
h-index

197818

49
g-index

156
all docs

156
docs citations

156
times ranked

3901
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved P300-based brain-computer interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2005, 13, 89-98.	4.9	353
2	Models of User Engagement. Lecture Notes in Computer Science, 2012, , 164-175.	1.3	168
3	Milepost GCC: Machine Learning Enabled Self-tuning Compiler. International Journal of Parallel Programming, 2011, 39, 296-327.	1.5	158
4	What makes a query difficult?. , 2006, , .		152
5	Learning to estimate query difficulty. , 2005, , .		148
6	Estimating the Query Difficulty for Information Retrieval. Synthesis Lectures on Information Concepts, Retrieval, and Services, 2010, 2, 1-89.	0.7	124
7	Applying Multiple Data Collection Tools to Quantify Human Papillomavirus Vaccine Communication on Twitter. Journal of Medical Internet Research, 2016, 18, e318.	4.3	115
8	Encouraging Physical Activity in Patients With Diabetes: Intervention Using a Reinforcement Learning System. Journal of Medical Internet Research, 2017, 19, e338.	4.3	114
9	Classification of finger activation for use in a robotic prosthesis arm. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 290-293.	4.9	110
10	Predicting user adherence to behavioral eHealth interventions in the real world: examining which aspects of intervention design matter most. Translational Behavioral Medicine, 2018, 8, 793-798.	2.4	105
11	Predicting customer churn in mobile networks through analysis of social groups. , 2010, , .		95
12	Measuring User Engagement. Synthesis Lectures on Information Concepts, Retrieval, and Services, 2014, 6, 1-132.	0.7	93
13	Postmarket Drug Surveillance Without Trial Costs: Discovery of Adverse Drug Reactions Through Large-Scale Analysis of Web Search Queries. Journal of Medical Internet Research, 2013, 15, e124.	4.3	93
14	Tracking COVID-19 using online search. Npj Digital Medicine, 2021, 4, 17.	10.9	92
15	Feature selection for the classification of movements from single movement-related potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 170-177.	4.9	85
16	Pro-Anorexia and Pro-Recovery Photo Sharing: A Tale of Two Warring Tribes. Journal of Medical Internet Research, 2012, 14, e151.	4.3	67
17	Detecting Disease Outbreaks in Mass Gatherings Using Internet Data. Journal of Medical Internet Research, 2014, 16, e154.	4.3	59
18	mHealth app using machine learning to increase physical activity in diabetes and depression: clinical trial protocol for the DIAMANTE Study. BMJ Open, 2020, 10, e034723.	1.9	58

#	ARTICLE	IF	CITATIONS
19	Patterns of Information-Seeking for Cancer on the Internet: An Analysis of Real World Data. PLoS ONE, 2012, 7, e45921.	2.5	58
20	Detection of movement-related potentials from the electro-encephalogram for possible use in a brain-computer interface. Medical and Biological Engineering and Computing, 2003, 41, 85-93.	2.8	50
21	Opinion leadership in small groups. International Journal of Research in Marketing, 2017, 34, 536-552.	4.2	45
22	Promoting Civil Discourse Through Search Engine Diversity. Social Science Computer Review, 2014, 32, 145-154.	4.2	44
23	Estimating the query difficulty for information retrieval. , 2010, , .		42
24	Population cycles and changes in body size of the lynx in Alaska. Oecologia, 2007, 152, 239-244.	2.0	39
25	The Impact of Delay Announcements on Hospital Network Coordination and Waiting Times. Management Science, 0, , .	4.1	33
26	Association of COVID19-induced anosmia and ageusia with depression and suicidal ideation. Journal of Affective Disorders Reports, 2021, 5, 100156.	1.7	31
27	What Drives Health Professionals to Tweet About #HPVvaccine? Identifying Strategies for Effective Communication. Preventing Chronic Disease, 2018, 15, E26.	3.4	28
28	Assessment of the Frequency of Online Searches for Symptoms Before Diagnosis: Analysis of Archival Data. Journal of Medical Internet Research, 2020, 22, e15065.	4.3	28
29	Enhancing web search in the medical domain via query clarification. Information Retrieval, 2016, 19, 149-173.	2.0	27
30	Updating Users about Time Critical Events. Lecture Notes in Computer Science, 2013, , 483-494.	1.3	26
31	Can You Believe an Anonymous Contributor? On Truthfulness in Yahoo! Answers. , 2012, , .		24
32	Assessing the impact of a health intervention via user-generated Internet content. Data Mining and Knowledge Discovery, 2015, 29, 1434-1457.	3.7	24
33	The effectiveness of public health advertisements to promote health: a randomized-controlled trial on 794,000 participants. Npj Digital Medicine, 2018, 1, 24.	10.9	24
34	Automatic Identification of Web-Based Risk Markers for Health Events. Journal of Medical Internet Research, 2015, 17, e29.	4.3	24
35	Risk Assessment for Parents Who Suspect Their Child Has Autism Spectrum Disorder: Machine Learning Approach. Journal of Medical Internet Research, 2018, 20, e134.	4.3	24
36	Social bookmark weighting for search and recommendation. VLDB Journal, 2010, 19, 761-775.	4.1	23

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37	Estimating the secondary attack rate and serial interval of influenza-like illnesses using social media. <i>Influenza and Other Respiratory Viruses</i> , 2015, 9, 191-199.	3.4	23
38	On the link between media coverage of anorexia and pro-anorexic practices on the web. <i>International Journal of Eating Disorders</i> , 2014, 47, 196-202.	4.0	21
39	Instrumenting where it hurts. , 2007, , .		20
40	Encouraging Physical Activity in Patients With Diabetes Through Automatic Personalized Feedback via Reinforcement Learning Improves Glycemic Control. <i>Diabetes Care</i> , 2016, 39, e59-e60.	8.6	20
41	Predicting eating disorders from <scp>Internet</scp> activity. <i>International Journal of Eating Disorders</i> , 2020, 53, 1526-1533.	4.0	20
42	Respiratory syncytial virus tracking using internet search engine data. <i>BMC Public Health</i> , 2018, 18, 445.	2.9	19
43	Adverse Reactions Associated With Cannabis Consumption as Evident From Search Engine Queries. <i>JMIR Public Health and Surveillance</i> , 2017, 3, e77.	2.6	19
44	Can internet search engine queries be used to diagnose diabetes? Analysis of archival search data. <i>Acta Diabetologica</i> , 2019, 56, 1149-1154.	2.5	18
45	When Overweight Is the Normal Weight: An Examination of Obesity Using a Social Media Internet Database. <i>PLoS ONE</i> , 2013, 8, e73479.	2.5	18
46	Estimating the Population Impact of a New Pediatric Influenza Vaccination Program in England Using Social Media Content. <i>Journal of Medical Internet Research</i> , 2017, 19, e416.	4.3	18
47	Inferring Individual Attributes from Search Engine Queries and Auxiliary Information. , 2017, , .		17
48	How Search Engine Data Enhance the Understanding of Determinants of Suicide in India and Inform Prevention: Observational Study. <i>Journal of Medical Internet Research</i> , 2019, 21, e10179.	4.3	17
49	Seeking Insights About Cycling Mood Disorders via Anonymized Search Logs. <i>Journal of Medical Internet Research</i> , 2014, 16, e65.	4.3	17
50	On the Relationship between Novelty and Popularity of User-Generated Content. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2012, 3, 1-19.	4.5	16
51	Seeking Web-Based Information About Attention Deficit Hyperactivity Disorder: Where, What, and When. <i>Journal of Medical Internet Research</i> , 2017, 19, e126.	4.3	16
52	A machine learning algorithm successfully screens for Parkinson's in web users. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 2503-2509.	3.7	15
53	â€œI was to post something, it would be too vulnerable:â€•University students and mental health disclosures on instagram. <i>Journal of American College Health</i> , 2022, 70, 615-624.	1.5	15
54	Web-Based Antismoking Advertising to Promote Smoking Cessation: A Randomized Controlled Trial. <i>Journal of Medical Internet Research</i> , 2016, 18, e306.	4.3	15

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55	SIGIR workshop report. ACM SIGIR Forum, 2005, 39, 25-28.	0.5	14
56	Enhancing digital libraries using missing content analysis. , 2008, , .		14
57	Maintaining dynamic channel profiles on the web. Proceedings of the VLDB Endowment, 2008, 1, 151-162.	3.8	14
58	Predicting Drug Recalls from Internet Search Engine Queries These findings suggest that aggregated Internet search engine data can be used to facilitate in early warning of faulty batches of medicines.. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-1.	3.7	14
59	Vaccine information seeking on social Q&A services. Vaccine, 2020, 38, 2691-2699.	3.8	14
60	The Effect of Limited Health Literacy on How Internet Users Learn About Diabetes. Journal of Health Communication, 2016, 21, 1107-1114.	2.4	13
61	Impact of online mental health screening tools on help-seeking, care receipt, and suicidal ideation and suicidal intent: Evidence from internet search behavior in a large U.S. cohort. Journal of Psychiatric Research, 2022, 145, 276-283.	3.1	13
62	Do Search Engine Helpline Notices Aid in Preventing Suicide? Analysis of Archival Data. Journal of Medical Internet Research, 2019, 21, e12235.	4.3	13
63	Ebola data from the Internet. , 2015, , .		12
64	Predicting Counterfactuals from Large Historical Data and Small Randomized Trials. , 2017, , .		12
65	Anxiety and Information Seeking. , 2018, , .		12
66	President Trump Stress Disorder: Partisanship, Ethnicity, and Expressive Reporting of Mental Distress After the 2016 Election. SAGE Open, 2019, 9, 215824401983086.	1.7	12
67	Digital Health Communication Common Agenda 2.0: An Updated Consensus for the Public and Private Sectors to Advance Public Health. Health Education and Behavior, 2019, 46, 124S-128S.	2.5	12
68	Demographic differences in search engine use with implications for cohort selection. Information Retrieval, 2019, 22, 570-580.	2.0	12
69	Analyzing Trends of Loneliness Through Large-Scale Analysis of Social Media Postings: Observational Study. JMIR Mental Health, 2020, 7, e17188.	3.3	12
70	Inducing Behavioral Change in Seekers of Pro-Anorexia Content Using Internet Advertisements: Randomized Controlled Trial. JMIR Mental Health, 2018, 5, e6.	3.3	12
71	Generative models for rapid information propagation. , 2010, , .		11
72	Out of sight, not out of mind. , 2011, , .		11

#	ARTICLE	IF	CITATIONS
73	Measuring inter-site engagement. , 2013, , .		11
74	Using confidence and consensuality to predict time invested in problem solving and in real-life web searching. Cognition, 2020, 199, 104248.	2.2	11
75	Negative Self-Disclosure on the Web: The Role of Guilt Relief. Frontiers in Psychology, 2017, 8, 1068.	2.1	10
76	Modeling influenza-like illnesses through composite compartmental models. Physica A: Statistical Mechanics and Its Applications, 2018, 494, 288-293.	2.6	10
77	Early detection of COVID-19 in China and the USA: summary of the implementation of a digital decision-support and disease surveillance tool. BMJ Open, 2020, 10, e041004.	1.9	10
78	Screening for Cancer Using a Learning Internet Advertising System. ACM Transactions on Computing for Healthcare, 2020, 1, 1-13.	5.0	10
79	Better multiclass classification via a margin-optimized single binary problem. Pattern Recognition Letters, 2008, 29, 1954-1959.	4.2	9
80	Networked user engagement. , 2013, , .		9
81	Linguistic Factors Associated With Propagation of Political Opinions in Twitter. Social Science Computer Review, 2014, 32, 195-204.	4.2	9
82	Differences in physical status, mental state and online behavior of people in pro-anorexia web communities. Eating Behaviors, 2016, 22, 109-112.	2.0	9
83	A probabilistic alternative to regression suites. Theoretical Computer Science, 2008, 404, 219-234.	0.9	8
84	Parallel Pairwise Clustering. , 2009, , .		8
85	Understanding perceived barriers to treatment from web browsing behavior. Journal of Affective Disorders, 2020, 267, 63-66.	4.1	8
86	Preferences for mHealth Technology and Text Messaging Communication in Patients With Type 2 Diabetes: Qualitative Interview Study. Journal of Medical Internet Research, 2021, 23, e25958.	4.3	8
87	The case of a mass shooting and violence-related mental illness stigma on Twitter.. Stigma and Health, 2019, 4, 411-420.	1.7	8
88	Online Concerns of Parents Suspecting Autism Spectrum Disorder in Their Child: Content Analysis of Signs and Automated Prediction of Risk. Journal of Medical Internet Research, 2016, 18, e300.	4.3	8
89	Movement-related potentials during the performance of a motor task I: The effect of learning and force. Biological Cybernetics, 2001, 85, 395-399.	1.3	7
90	Who tags the tags?. , 2009, , .		7

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91	The Effect of Social and Physical Detachment on Information Need. ACM Transactions on Information Systems, 2013, 31, 1-19.	4.9	7
92	An Introduction to Pattern Classification. Lecture Notes in Computer Science, 2004, , 1-20.	1.3	6
93	The effect of links on networked user engagement. , 2012, , .		6
94	On information propagation in mobile call networks. Social Network Analysis and Mining, 2013, 3, 521-541.	2.8	6
95	The Werther Effect Revisited. , 2017, , .		6
96	Modeling infection methods of computer malware in the presence of vaccinations using epidemiological models: an analysis of real-world data. International Journal of Data Science and Analytics, 2020, 10, 349-358.	4.1	6
97	A Self-optimized Job Scheduler for Heterogeneous Server Clusters. Lecture Notes in Computer Science, 2008, , 169-187.	1.3	6
98	Evidence From Web-Based Dietary Search Patterns to the Role of B12 Deficiency in Non-Specific Chronic Pain: A Large-Scale Observational Study. Journal of Medical Internet Research, 2018, 20, e4.	4.3	6
99	Information is in the eye of the beholder: Seeking information on the MMR vaccine through an Internet search engine. AMIA ... Annual Symposium proceedings, 2014, 2014, 1238-47.	0.2	6
100	REinforcement learning to improve non-adherence for diabetes treatments by Optimising Response and Customising Engagement (REINFORCE): study protocol of a pragmatic randomised trial. BMJ Open, 2021, 11, e052091.	1.9	6
101	Active syndromic surveillance of COVID-19 in Israel. Scientific Reports, 2021, 11, 24449.	3.3	6
102	Movement-related potentials in the human spinal cord preceding toe movement. Clinical Neurophysiology, 2000, 111, 350-361.	1.5	5
103	The effect of social affinity and predictive horizon on churn prediction using diffusion modeling. Social Network Analysis and Mining, 2014, 4, 1.	2.8	5
104	Vaccine advertising: preach to the converted or to the unaware?. Npj Digital Medicine, 2021, 4, 23.	10.9	5
105	Privacy, Altruism, and Experience: Estimating the Perceived Value of Internet Data for Medical Uses. , 2020, , .		5
106	A model of induced coupled movements in the human body: a case study. Biological Cybernetics, 1999, 80, 411-416.	1.3	4
107	Movement-related potentials during the performance of a motor task II: Cerebral areas activated during learning of the task. Biological Cybernetics, 2001, 85, 387-394.	1.3	4
108	Location and timeliness of information sources during news events. , 2011, , .		4

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109	Detecting Impending Stroke From Cognitive Traits Evident in Internet Searches: Analysis of Archival Data. <i>Journal of Medical Internet Research</i> , 2021, 23, e27084.	4.3	4
110	An Open Source Simulation Model of Software Development and Testing. , 2006, , 124-137.		4
111	Symptoms Prompting Interest in Celiac Disease and the Gluten-Free Diet: Analysis of Internet Search Term Data. <i>Journal of Medical Internet Research</i> , 2019, 21, e13082.	4.3	4
112	Collaboration between Government and Research Community to Respond to COVID-19: Israel's Case. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2021, 7, 208.	5.2	4
113	Internet Searches for Medical Symptoms Before Seeking Information on 12-Step Addiction Treatment Programs: A Web-Search Log Analysis. <i>Journal of Medical Internet Research</i> , 2019, 21, e10946.	4.3	4
114	On the relationship between novelty and popularity of user-generated content. , 2010, , .		3
115	Workshop on health search and discovery. , 2013, , .		3
116	Harsh climate selects for small body size among Iceland's Arctic foxes. <i>Ecography</i> , 2017, 40, 376-383.	4.5	3
117	Adverse events associated with colonoscopy; an examination of online concerns. <i>BMC Gastroenterology</i> , 2019, 19, 207.	2.0	3
118	Multi-season analysis reveals the spatial structure of disease spread. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 547, 124425.	2.6	3
119	Algorithmic copywriting: automated generation of health-related advertisements to improve their performance. <i>Information Retrieval</i> , 2021, 24, 205-239.	2.0	3
120	Ethical Challenges and Opportunities Associated With the Ability to Perform Medical Screening From Interactions With Search Engines: Viewpoint. <i>Journal of Medical Internet Research</i> , 2020, 22, e21922.	4.3	3
121	Providing early indication of regional anomalies in COVID-19 case counts in England using search engine queries. <i>Scientific Reports</i> , 2022, 12, 2373.	3.3	3
122	Report on the SIGIR 2013 workshop on health search and discovery. <i>ACM SIGIR Forum</i> , 2013, 47, 101-108.	0.5	2
123	Learning About Health and Medicine from Internet Data. , 2015, , .		2
124	HPV vaccine, Twitter, and gay, bisexual and other men who have sex with men. <i>Health Promotion International</i> , 2020, 35, 290-300.	1.8	2
125	Unique Internet Search Strategies of Individuals With Self-Declared Autism: Quantitative Analysis of Search Engine Users' Investigative Behaviors. <i>Journal of Medical Internet Research</i> , 2021, 23, e23829.	4.3	2
126	Concerns of Female Adolescents About Menarche and First Sexual Intercourse: Mixed Methods Analysis of Social Media Questions. <i>JMIR Pediatrics and Parenting</i> , 2019, 2, e13158.	1.6	2

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127	Real-World Evidence on the Effect of Missing an Oral Contraceptive Dose: Analysis of Internet Search Engine Queries. <i>Journal of Medical Internet Research</i> , 2020, 22, e20632.	4.3	2
128	The Automated Copywriter: Algorithmic Rephrasing of Health-Related Advertisements to Improve their Performance. , 2020, , .		2
129	Automatic Debugging of Concurrent Programs through Active Sampling of Low Dimensional Random Projections. , 2008, , .		1
130	The complex effects of geography, ambient temperature, and North Atlantic Oscillation on the body size of Arctic hares in Greenland. <i>Biological Journal of the Linnean Society</i> , 2017, 120, 909-918.	1.6	1
131	Building a Tool that Draws from the Collective Wisdom of the Internet to Help Users Respond Effectively to Anxiety-Related Questions. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022, , 15-27.	0.3	1
132	IBM Parallel Machine Learning Toolbox. , 0, , 69-88.		0
133	What onâ€line searches tell us about public interest and potential impact on behaviour in response to minimum unit pricing of alcohol in Scotland. <i>Addiction</i> , 2021, 116, 2008-2015.	3.3	0
134	Trojan Horse: An Analysis of Targeted Advertising to Reduce Sexually Transmitted Diseases Among YMSM. <i>Health Education and Behavior</i> , 2021, 48, 637-650.	2.5	0
135	The First Predictor of Impending Stroke: An Internet Search-Based Algorithm Blind to Established Cardiometabolic Risk, Outperforms Classical Risk Factor-Based Calculators. <i>Journal of the Endocrine Society</i> , 2021, 5, A299-A300.	0.2	0
136	Analysis of a Vaping-Associated Lung Injury Outbreak through Participatory Surveillance and Archival Internet Data. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8203.	2.6	0
137	Modularity-Based Query Clustering for Identifying Users Sharing a Common Condition. , 2015, , .		0
138	Hispanic Use of Alternative Medicine as Demonstrated in Internet Searches. <i>Health Behavior and Policy Review</i> , 2017, 4, 503-510.	0.4	0
139	Covidseeker: A Geospatial Temporal Surveillance Tool. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1410.	2.6	0
140	Intimate Partner Violence as Reflected in Internet Search Data. <i>Social Science Computer Review</i> , 0, , 089443932210840.	4.2	0
141	Signals and Systems. , 2009, , 3691-3696.		0