Daniel B Neill

List of Publications by Year
in descending order

51 papers	1,405 citations	567281 15 h-index	477307 29 g-index
52 all docs	52 docs citations	52 times ranked	1137 citing authors

#	Article	IF	Citations
1	Fast Subset Scan for Spatial Pattern Detection. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 337-360.	2.2	142
2	Youth violence: What we know and what we need to know.. American Psychologist, 2016, 71, 17-39.	4.2	127
3	Non-parametric scan statistics for event detection and forecasting in heterogeneous social media graphs. , 2014, , .		106
4	Using Artificial Intelligence to Improve Hospital Inpatient Care. IEEE Intelligent Systems, 2013, 28, 92-95.	4.0	99
5	Rapid detection of significant spatial clusters. , 2004, , .		97
6	Detection of emerging space-time clusters. , 2005, , .		90
7	Expectation-based scan statistics for monitoring spatial time series data. International Journal of Forecasting, 2009, 25, 498-517.	6.5	69
8	A multivariate Bayesian scan statistic for early event detection and characterization. Machine Learning, 2010, 79, 261-282.	5.4	62
9	Anomaly pattern detection in categorical datasets. , 2008, , .		55
10	An empirical comparison of spatial scan statistics for outbreak detection. International Journal of Health Geographics, 2009, 8, 20.	2.5	53
11	Artificial intelligenceâ€“enabled public health surveillanceâ€”from local detection to global epidemic monitoring and control. , 2021, , 437-453.		42
12	Detection of Patterns in Water Distribution Pipe Breakage Using Spatial Scan Statistics for Point Events in a Physical Network. Journal of Computing in Civil Engineering, 2011, 25, 21-30.	4.7	39
13	Optimality Under Noise: Higher Memory Strategies for the Alternating Prisoner's Dilemma. Journal of Theoretical Biology, 2001, 211, 159-180.	1.7	32
14	Scalable Detection of Anomalous Patterns With Connectivity Constraints. Journal of Computational and Graphical Statistics, 2015, 24, 1014-1033.	1.7	31
15	Machine Learning for the Developing World. ACM Transactions on Management Information Systems, 2018, 9, 1-14.	2.8	31
16	Fast subset scan for multivariate event detection. Statistics in Medicine, 2013, 32, 2185-2208.	1.6	28
17	Fast Bayesian scan statistics for multivariate event detection and visualization. Statistics in Medicine, 2011, 30, 455-469.	1.6	27
18	Methods for Detecting Spatial and Spatio-Temporal Clusters. , 2006, , 243-254.		26

#	Article	IF	Citations
19	New Directions in Artificial Intelligence for Public Health Surveillance. IEEE Intelligent Systems, 2012, 27, 56-59.	4.0	20
20	Dynamic Pattern Detection with Temporal Consistency and Connectivity Constraints. , 2013, , .		19
21	Penalized Fast Subset Scanning. Journal of Computational and Graphical Statistics, 2016, 25, 382-404.	1.7	19
22	Keeping Score: Predictive Analytics in Policing. Annual Review of Criminology, 2019, 2, 473-491.	3.5	18
23	Where did I get dengue? Detecting spatial clusters of infection risk with social network data. Spatial and Spatio-temporal Epidemiology, 2019, 29, 163-175.	1.7	17
24	Evolutionary stability for large populations. Journal of Theoretical Biology, 2004, 227, 397-401.	1.7	16
25	Information Visualization for Chronic Disease Risk Assessment. IEEE Intelligent Systems, 2012, 27, 81-85.	4.0	16
26	Identifying Predictors of Opioid Overdose Death at a Neighborhood Level With Machine Learning. American Journal of Epidemiology, 2022, 191, 526-533.	3.4	16
27	A Bayesian network model for spatial event surveillance. International Journal of Approximate Reasoning, 2010, 51, 224-239.	3.3	13
28	Gaussian Processes for Independence Tests with Non-iid Data in Causal Inference. ACM Transactions on Intelligent Systems and Technology, 2016, 7, 1-23.	4.5	12
29	Machine Learning for Drug Overdose Surveillance. Journal of Technology in Human Services, 2018, 36, 8-14.	1.6	12
30	Discovering anomalous patterns in large digital pathology images. Statistics in Medicine, 2018, 37, 3599-3615.	1.6	12
31	Detecting Spatial Clusters of Disease Infection Risk Using Sparsely Sampled Social Media Mobility Patterns. , 2019, , .		9
32	Cascade Effects in Heterogeneous Populations. Rationality and Society, 2005, 17, 191-241.	1.1	8
33	Non-Parametric Scan Statistics for Disease Outbreak Detection on Twitter. Online Journal of Public Health Informatics, 2014, 6, .	0.7	7
34	Bayesian Network Scan Statistics for Multivariate Pattern Detection. , 2009, , 221-249.		6
35	Cooperation and coordination in the turn-taking dilemma. , 2003, , .		6
36	Automated Local Regression Discontinuity Design Discovery. , 2018, , .		5

#	Article	IF	Citations
37	Support Vector Subset Scan for Spatial Outbreak Detection. Online Journal of Public Health Informatics, 2017, 9, .	0.7	4
38	Efficient Scan Statistic Computations. , 2005, , 189-202.		3
39	Fast graph structure learning from unlabeled data for outbreak detection. Emerging Health Threats Journal, 2011, 4, .	3.0	3
40	A Generalized Fast Subset Sums Framework for Bayesian Event Detection. , 2011, , .		2
41	Bayesian Scan Statistics. , 2019, , 1-21.		2
42	International Society for Disease Surveillance Conference 2011: Building the Future of Public Health Surveillance. Emerging Health Threats Journal, 2011, 4, 11702.	3.0	1
43	Support vector subset scan for spatial pattern detection. Computational Statistics and Data Analysis, 2021, 157, 107149.	1.2	1
44	Detecting previously unseen outbreaks with novel symptom patterns. Emerging Health Threats Journal, 2011, 4, .	3.0	1
45	Subset Scanning for Event and Pattern Detection. , 2017, , 2218-2228.		1
46	Fast Multidimensional Subset Scan for Outbreak Detection and Characterization. Online Journal of Public Health Informatics, 2013, 5, .	0.7	0
47	Tracking Dynamic Water-borne Outbreaks with Temporal Consistency Constraints. Online Journal of Public Health Informatics, 2013, 5, .	0.7	0
48	Disease Surveillance, Case Study. , 2014, , 380-385.		0
49	Subset Scanning for Event and Pattern Detection. , 2015, , 1-10.		0
50	Disease Surveillance: Case Study. , 2018, , 641-647.		0
51	Efficient Optimization of Partition Scan Statistics via the Consecutive Partitions Property. Journal of Computational and Graphical Statistics, 2023, 32, 712-729.	1.7	0