## Madhav Marathe

## List of Publications by Citations

Source: https://exaly.com/author-pdf/7972355/madhav-marathe-publications-by-citations.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.

52 1,107 19 32 g-index

58 1,385 4.3 4.4 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
52	Modeling the impact of interventions on an epidemic of ebola in sierra leone and liberia. <i>PLOS Currents</i> , <b>2014</b> , 6,		104
51	Formal-Language-Constrained Path Problems. SIAM Journal on Computing, 2000, 30, 809-837	1.1	103
50	Systems modeling of molecular mechanisms controlling cytokine-driven CD4+ T cell differentiation and phenotype plasticity. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003027	5	84
49	Using data-driven agent-based models for forecasting emerging infectious diseases. <i>Epidemics</i> , <b>2018</b> , 22, 43-49	5.1	83
48	Computational epidemiology. <i>Communications of the ACM</i> , <b>2013</b> , 56, 88-96	2.5	63
47	Opinion: Mathematical models: a key tool for outbreak response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 18095-6	11.5	56
46	Modeling of wildlife-associated zoonoses: applications and caveats. <i>Vector-Borne and Zoonotic Diseases</i> , <b>2012</b> , 12, 1005-18	2.4	56
45	Predictive computational modeling of the mucosal immune responses during Helicobacter pylori infection. <i>PLoS ONE</i> , <b>2013</b> , 8, e73365	3.7	45
44	Economic and social impact of influenza mitigation strategies by demographic class. <i>Epidemics</i> , <b>2011</b> , 3, 19-31	5.1	39
43	Modeling the impact of interventions on an epidemic of ebola in sierra leone and liberia. <i>PLOS Currents</i> , <b>2014</b> , 6,		37
42	ENteric Immunity SImulator: a tool for in silico study of gastroenteric infections. <i>IEEE Transactions on Nanobioscience</i> , <b>2012</b> , 11, 273-88	3.4	32
41	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. <i>JMIR Public Health and Surveillance</i> , <b>2017</b> , 3, e83	11.4	29
40	A framework for evaluating epidemic forecasts. <i>BMC Infectious Diseases</i> , <b>2017</b> , 17, 345	4	28
39	Optimizing spatial allocation of seasonal influenza vaccine under temporal constraints. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007111	5	23
38	DEFSI: Deep Learning Based Epidemic Forecasting with Synthetic Information. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 9607-9612	5	23
37	Disparities in spread and control of influenza in slums of Delhi: findings from an agent-based modelling study. <i>BMJ Open</i> , <b>2018</b> , 8, e017353	3	22
36	Detail in network models of epidemiology: are we there yet?. <i>Journal of Biological Dynamics</i> , <b>2010</b> , 4, 446-55	2.4	22

35	Recent Advances in Computational Epidemiology. IEEE Intelligent Systems, 2013, 28, 96-101	4.2	19
34	Comparing effectiveness of top-down and bottom-up strategies in containing influenza. <i>PLoS ONE</i> , <b>2011</b> , 6, e25149	3.7	19
33	Modeling interaction between individuals, social networks and public policy to support public health epidemiology <b>2009</b> ,		17
32	Sensitivity Analysis of an ENteric Immunity SImulator (ENISI)-Based Model of Immune Responses to Helicobacter pylori Infection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136139	3.7	14
31	Parametric Probabilistic Routing in Sensor Networks. <i>Mobile Networks and Applications</i> , <b>2005</b> , 10, 529-5	<b>44</b> 9	14
30	Calibrating a Stochastic, Agent-Based Model Using Quantile-Based Emulation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , <b>2018</b> , 6, 1685-1706	1.8	14
29	ENISI Visual, an agent-based simulator for modeling gut immunity 2012,		13
28	ENteric Immunity SImulator: A Tool for in silico Study of Gut Immunopathologies 2011,		12
27	A fast parallel algorithm for counting triangles in graphs using dynamic load balancing <b>2015</b> ,		11
26	TDEFSI. ACM Transactions on Spatial Algorithms and Systems, <b>2020</b> , 6, 1-39	1.8	11
25	Forecasting dengue and influenza incidences using a sparse representation of Google trends, electronic health records, and time series data. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007518	5	11
24	Assessing the multi-pathway threat from an invasive agricultural pest: in Asia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2019</b> , 286, 20191159	4.4	10
23	Individual and Collective Behavior in Public Health Epidemiology. <i>Handbook of Statistics</i> , <b>2017</b> , 36, 329-3	3 <b>65</b> 6	10
22	Integrated Multi-Network Modeling Environment for Spectrum Management. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 1158-1168	14.2	9
21	An Efficient and Scalable Algorithmic Method for Generating Large-Scale Random Graphs 2016,		9
20	What to know before forecasting the flu. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1005964	5	7
19	Summarizing Simulation Results using Causally-relevant States. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 10003, 88-103	0.9	6
18	Spatio-Temporal Optimization of Seasonal Vaccination Using a Metapopulation Model of Influenza <b>2017</b> ,		5

17	EpiCaster: An Integrated Web Application For Situation Assessment and Forecasting of Global Epidemics <b>2015</b> , 2015, 156-165		5
16	Parallel Algorithms for Switching Edges in Heterogeneous Graphs. <i>Journal of Parallel and Distributed Computing</i> , <b>2017</b> , 104, 19-35	4.4	4
15	A parallel algorithm for generating a random graph with a prescribed degree sequence 2017,		4
14	Flu Caster: A Pervasive Web Application for High Resolution Situation Assessment and Forecasting of Flu Outbreaks <b>2015</b> ,		4
13	Statistical Analysis of Algorithms: A Case Study of Market-Clearing Mechanisms in the Power Industry. <i>Journal of Graph Algorithms and Applications</i> , <b>2003</b> , 7, 3-31	1.5	4
12	Feedback Between Behavioral Adaptations and Disease Dynamics. <i>Scientific Reports</i> , <b>2018</b> , 8, 12452	4.9	4
11	The effect of demographic and spatial variability on epidemics: A comparison between Beijing, Delhi, and Los Angeles <b>2010</b> ,		3
10	Fundamental limitations on efficiently forecasting certain epidemic measures in network models <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3
9	Computational challenges in modeling & simulation of complex systems 2017,		2
8	Evaluating Strategies for Pandemic Response in Delhi Using Realistic Social Networks 2013,		2
7	Efficient implementation of complex interventions in large scale epidemic simulations 2011,		2
6	2019,		2
5	Resilient Cities and Urban Analytics <b>2015</b> ,		1
4	Finding and Counting Tree-Like Subgraphs Using MapReduce. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2018</b> , 4, 217-230		1
3	Realistic Commodity Flow Networks to Assess Vulnerability of Food Systems. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 168-179	0.8	1
2	Impact of SARS-CoV-2 vaccination of children ages 5-11 years on COVID-19 disease burden and resilience to new variants in the United States, November 2021-March 2022: a multi-model study. <b>2022</b> ,		1
1	An Automated Approach for Finding Spatio-Temporal Patterns of Seasonal Influenza in the United States: Algorithm Validation Study. <i>JMIR Public Health and Surveillance</i> , <b>2020</b> , 6, e12842	11.4	