

Madhav Marathe

List of Publications by Year in Descending Order

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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.

52
papers

1,107
citations

19
h-index

32
g-index

58
ext. papers

1,385
ext. citations

4.3
avg, IF

4.4
L-index

#	Paper	IF	Citations
52	Realistic Commodity Flow Networks to Assess Vulnerability of Food Systems. <i>Studies in Computational Intelligence</i> , 2022 , 168-179	0.8	1
51	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> , 2022 , 119,	11.5	3
50	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. 2022 ,		1
49	TDEFSI. <i>ACM Transactions on Spatial Algorithms and Systems</i> , 2020 , 6, 1-39	1.8	11
48	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> , 2020 , 6, e12842	11.4	
47	Optimizing spatial allocation of seasonal influenza vaccine under temporal constraints. <i>PLoS Computational Biology</i> , 2019 , 15, e1007111	5	23
46	Assessing the multi-pathway threat from an invasive agricultural pest: in Asia. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191159	4.4	10
45	DEFSI: Deep Learning Based Epidemic Forecasting with Synthetic Information. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 9607-9612	5	23
44	2019 ,		2
43	Forecasting dengue and influenza incidences using a sparse representation of Google trends, electronic health records, and time series data. <i>PLoS Computational Biology</i> , 2019 , 15, e1007518	5	11
42	Disparities in spread and control of influenza in slums of Delhi: findings from an agent-based modelling study. <i>BMJ Open</i> , 2018 , 8, e017353	3	22
41	Finding and Counting Tree-Like Subgraphs Using MapReduce. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , 2018 , 4, 217-230		1
40	Using data-driven agent-based models for forecasting emerging infectious diseases. <i>Epidemics</i> , 2018 , 22, 43-49	5.1	83
39	What to know before forecasting the flu. <i>PLoS Computational Biology</i> , 2018 , 14, e1005964	5	7
38	Calibrating a Stochastic, Agent-Based Model Using Quantile-Based Emulation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018 , 6, 1685-1706	1.8	14
37	Feedback Between Behavioral Adaptations and Disease Dynamics. <i>Scientific Reports</i> , 2018 , 8, 12452	4.9	4
36	Parallel Algorithms for Switching Edges in Heterogeneous Graphs. <i>Journal of Parallel and Distributed Computing</i> , 2017 , 104, 19-35	4.4	4

35	A parallel algorithm for generating a random graph with a prescribed degree sequence 2017 ,		4
34	A framework for evaluating epidemic forecasts. <i>BMC Infectious Diseases</i> , 2017 , 17, 345	4	28
33	Computational challenges in modeling & simulation of complex systems 2017 ,		2
32	Spatio-Temporal Optimization of Seasonal Vaccination Using a Metapopulation Model of Influenza 2017 ,		5
31	Individual and Collective Behavior in Public Health Epidemiology. <i>Handbook of Statistics</i> , 2017 , 36, 329-365		10
30	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e83	11.4	29
29	Summarizing Simulation Results using Causally-relevant States. <i>Lecture Notes in Computer Science</i> , 2016 , 10003, 88-103	0.9	6
28	An Efficient and Scalable Algorithmic Method for Generating Large-Scale Random Graphs 2016 ,		9
27	Resilient Cities and Urban Analytics 2015 ,		1
26	Flu Caster: A Pervasive Web Application for High Resolution Situation Assessment and Forecasting of Flu Outbreaks 2015 ,		4
25	EpiCaster: An Integrated Web Application For Situation Assessment and Forecasting of Global Epidemics 2015 , 2015, 156-165		5
24	Sensitivity Analysis of an ENteric Immunity Simulator (ENISI)-Based Model of Immune Responses to Helicobacter pylori Infection. <i>PLoS ONE</i> , 2015 , 10, e0136139	3.7	14
23	A fast parallel algorithm for counting triangles in graphs using dynamic load balancing 2015 ,		11
22	Opinion: Mathematical models: a key tool for outbreak response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18095-6	11.5	56
21	Modeling the impact of interventions on an epidemic of ebola in sierra leone and liberia. <i>PLOS Currents</i> , 2014 , 6,		104
20	Modeling the impact of interventions on an epidemic of ebola in sierra leone and liberia. <i>PLOS Currents</i> , 2014 , 6,		37
19	Computational epidemiology. <i>Communications of the ACM</i> , 2013 , 56, 88-96	2.5	63
18	Recent Advances in Computational Epidemiology. <i>IEEE Intelligent Systems</i> , 2013 , 28, 96-101	4.2	19

17	Evaluating Strategies for Pandemic Response in Delhi Using Realistic Social Networks 2013 ,		2
16	Integrated Multi-Network Modeling Environment for Spectrum Management. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1158-1168	14.2	9
15	Systems modeling of molecular mechanisms controlling cytokine-driven CD4+ T cell differentiation and phenotype plasticity. <i>PLoS Computational Biology</i> , 2013 , 9, e1003027	5	84
14	Predictive computational modeling of the mucosal immune responses during Helicobacter pylori infection. <i>PLoS ONE</i> , 2013 , 8, e73365	3.7	45
13	ENISI Visual, an agent-based simulator for modeling gut immunity 2012 ,		13
12	ENteric Immunity Simulator: a tool for in silico study of gastroenteric infections. <i>IEEE Transactions on Nanobioscience</i> , 2012 , 11, 273-88	3.4	32
11	Modeling of wildlife-associated zoonoses: applications and caveats. <i>Vector-Borne and Zoonotic Diseases</i> , 2012 , 12, 1005-18	2.4	56
10	Economic and social impact of influenza mitigation strategies by demographic class. <i>Epidemics</i> , 2011 , 3, 19-31	5.1	39
9	ENteric Immunity Simulator: A Tool for in silico Study of Gut Immunopathologies 2011 ,		12
8	Efficient implementation of complex interventions in large scale epidemic simulations 2011 ,		2
7	Comparing effectiveness of top-down and bottom-up strategies in containing influenza. <i>PLoS ONE</i> , 2011 , 6, e25149	3.7	19
6	Detail in network models of epidemiology: are we there yet?. <i>Journal of Biological Dynamics</i> , 2010 , 4, 446-55	2.4	22
5	The effect of demographic and spatial variability on epidemics: A comparison between Beijing, Delhi, and Los Angeles 2010 ,		3
4	Modeling interaction between individuals, social networks and public policy to support public health epidemiology 2009 ,		17
3	Parametric Probabilistic Routing in Sensor Networks. <i>Mobile Networks and Applications</i> , 2005 , 10, 529-549	4.9	14
2	Statistical Analysis of Algorithms: A Case Study of Market-Clearing Mechanisms in the Power Industry. <i>Journal of Graph Algorithms and Applications</i> , 2003 , 7, 3-31	1.5	4
1	Formal-Language-Constrained Path Problems. <i>SIAM Journal on Computing</i> , 2000 , 30, 809-837	1.1	103