

Madhav Marathe

List of Publications by Year in descending order

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54
papers

1,565
citations

331670

21
h-index

361022

35
g-index

58
all docs

58
docs citations

58
times ranked

1994
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental limitations on efficiently forecasting certain epidemic measures in network models. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9
2	Computational Modeling of Immune System Interactions during Cytokine Release Syndrome (CRS) and Immune Effector Cell Associated Neurotoxicity Syndrome (ICANS) after Chimeric Antigen Receptor (CAR) T-Cell Therapy. Transplantation and Cellular Therapy, 2022, 28, S145-S146.	1.2	0
3	All Models Are Useful: Bayesian Ensembling for Robust High Resolution COVID-19 Forecasting. , 2021, , .		9
4	TDEFSI. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-39.	1.4	18
5	Bounds and Complexity Results for Learning Coalition-Based Interaction Functions in Networked Social Systems. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3138-3145.	4.9	0
6	An Automated Approach for Finding Spatio-Temporal Patterns of Seasonal Influenza in the United States: Algorithm Validation Study. JMIR Public Health and Surveillance, 2020, 6, e12842.	2.6	0
7	Assessing the multi-pathway threat from an invasive agricultural pest: <i>Tuta absoluta</i> in Asia. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191159.	2.6	17
8	Optimizing spatial allocation of seasonal influenza vaccine under temporal constraints. PLoS Computational Biology, 2019, 15, e1007111.	3.2	44
9	DEFSI: Deep Learning Based Epidemic Forecasting with Synthetic Information. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9607-9612.	4.9	41
10	SubGraph2Vec: Highly-Vectorized Tree-like Subgraph Counting. , 2019, , .		3
11	Forecasting dengue and influenza incidences using a sparse representation of Google trends, electronic health records, and time series data. PLoS Computational Biology, 2019, 15, e1007518.	3.2	20
12	Disparities in spread and control of influenza in slums of Delhi: findings from an agent-based modelling study. BMJ Open, 2018, 8, e017353.	1.9	36
13	Finding and Counting Tree-Like Subgraphs Using MapReduce. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 217-230.	2.4	2
14	Using data-driven agent-based models for forecasting emerging infectious diseases. Epidemics, 2018, 22, 43-49.	3.0	133
15	What to know before forecasting the flu. PLoS Computational Biology, 2018, 14, e1005964.	3.2	11
16	Calibrating a Stochastic, Agent-Based Model Using Quantile-Based Emulation. SIAM-ASA Journal on Uncertainty Quantification, 2018, 6, 1685-1706.	2.0	24
17	Feedback Between Behavioral Adaptations and Disease Dynamics. Scientific Reports, 2018, 8, 12452.	3.3	6
18	Parallel algorithms for switching edges in heterogeneous graphs. Journal of Parallel and Distributed Computing, 2017, 104, 19-35.	4.1	6

#	ARTICLE	IF	CITATIONS
19	A framework for evaluating epidemic forecasts. BMC Infectious Diseases, 2017, 17, 345.	2.9	42
20	Computational challenges in modeling & simulation of complex systems. , 2017, , .		4
21	Spatio-Temporal Optimization of Seasonal Vaccination Using a Metapopulation Model of Influenza. , 2017, , .		6
22	Individual and Collective Behavior in Public Health Epidemiology. Handbook of Statistics, 2017, 36, 329-365.	0.6	13
23	A parallel algorithm for generating a random graph with a prescribed degree sequence. , 2017, , .		5
24	Combining Participatory Influenza Surveillance with Modeling and Forecasting: Three Alternative Approaches. JMIR Public Health and Surveillance, 2017, 3, e83.	2.6	42
25	An Efficient and Scalable Algorithmic Method for Generating Large-Scale Random Graphs. , 2016, , .		10
26	Summarizing Simulation Results Using Causally-Relevant States. Lecture Notes in Computer Science, 2016, 10003, 88-103.	1.3	8
27	Flu Caster: A Pervasive Web Application for High Resolution Situation Assessment and Forecasting of Flu Outbreaks. , 2015, , .		5
28	EpiCaster. , 2015, 2015, 156-165.		7
29	Sensitivity Analysis of an ENteric Immunity Simulator (ENISI)-Based Model of Immune Responses to Helicobacter pylori Infection. PLoS ONE, 2015, 10, e0136139.	2.5	24
30	A fast parallel algorithm for counting triangles in graphs using dynamic load balancing. , 2015, , .		14
31	Resilient Cities and Urban Analytics. , 2015, , .		1
32	Mathematical models: A key tool for outbreak response. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18095-18096.	7.1	78
33	Modeling the Impact of Interventions on an Epidemic of Ebola in Sierra Leone and Liberia. PLOS Currents, 2014, 6, .	1.4	143
34	Modeling the Impact of Interventions on an Epidemic of Ebola in Sierra Leone and Liberia. PLOS Currents, 2014, 6, .	1.4	45
35	Computational epidemiology. Communications of the ACM, 2013, 56, 88-96.	4.5	93
36	Recent Advances in Computational Epidemiology. IEEE Intelligent Systems, 2013, 28, 96-101.	4.0	34

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37	Evaluating Strategies for Pandemic Response in Delhi Using Realistic Social Networks. , 2013, , .		3
38	Integrated Multi-Network Modeling Environment for Spectrum Management. IEEE Journal on Selected Areas in Communications, 2013, 31, 1158-1168.	14.0	11
39	Systems Modeling of Molecular Mechanisms Controlling Cytokine-driven CD4+ T Cell Differentiation and Phenotype Plasticity. PLoS Computational Biology, 2013, 9, e1003027.	3.2	111
40	Predictive Computational Modeling of the Mucosal Immune Responses during Helicobacter pylori Infection. PLoS ONE, 2013, 8, e73365.	2.5	53
41	ENteric Immunity SImulator: A Tool for In Silico Study of Gastroenteric Infections. IEEE Transactions on Nanobioscience, 2012, 11, 273-288.	3.3	34
42	Modeling of Wildlife-Associated Zoonoses: Applications and Caveats. Vector-Borne and Zoonotic Diseases, 2012, 12, 1005-1018.	1.5	73
43	ENISI Visual, an agent-based simulator for modeling gut immunity. , 2012, , .		14
44	Poster: Parallel Algorithms for Counting Triangles and Computing Clustering Coefficients. , 2012, , .		1
45	ENteric Immunity SImulator: A Tool for in silico Study of Gut Immunopathologies. , 2011, , .		14
46	Efficient implementation of complex interventions in large scale epidemic simulations. , 2011, , .		4
47	Economic and social impact of influenza mitigation strategies by demographic class. Epidemics, 2011, 3, 19-31.	3.0	46
48	Comparing Effectiveness of Top-Down and Bottom-Up Strategies in Containing Influenza. PLoS ONE, 2011, 6, e25149.	2.5	24
49	Detail in network models of epidemiology: are we there yet?. Journal of Biological Dynamics, 2010, 4, 446-455.	1.7	30
50	The effect of demographic and spatial variability on epidemics: A comparison between Beijing, Delhi, and Los Angeles. , 2010, , .		7
51	Modeling interaction between individuals, social networks and public policy to support public health epidemiology. , 2009, , .		21
52	Parametric Probabilistic Routing in Sensor Networks. Mobile Networks and Applications, 2005, 10, 529-544.	3.3	23
53	Statistical Analysis of Algorithms: A Case Study of Market-Clearing Mechanisms in the Power Industry. Journal of Graph Algorithms and Applications, 2003, 7, 3-31.	0.4	4
54	Formal-Language-Constrained Path Problems. SIAM Journal on Computing, 2000, 30, 809-837.	1.0	131