

John Harer

List of Publications by Year in descending order

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28
papers

3,576
citations

471509

17
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Simulated Surveillance Testing and Quarantine in a SARS-CoV-2â€“Vaccinated Population of Students on a University Campus. JAMA Health Forum, 2021, 2, e213035.	2.2	4
2	An intrinsic oscillator drives the blood stage cycle of the malaria parasite <i>Plasmodium falciparum</i> . Science, 2020, 368, 754-759.	12.6	62
3	Hyperparameter Optimization of Topological Features for Machine Learning Applications. , 2019, , .		2
4	Scaffoldings and Spines: Organizing High-Dimensional Data Using Cover Trees, Local Principal Component Analysis, and Persistent Homology. Association for Women in Mathematics Series, 2018, , 93-114.	0.4	4
5	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	2.6	237
6	Topological and statistical behavior classifiers for tracking applications. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2644-2661.	4.7	10
7	Multi-scale local shape analysis and feature selection in machine learning applications. , 2015, , .		9
8	SW1PerS: Sliding windows and 1-persistence scoring; discovering periodicity in gene expression time series data. BMC Bioinformatics, 2015, 16, 257.	2.6	74
9	Sliding Windows and Persistence: An Application of Topological Methods to Signal Analysis. Foundations of Computational Mathematics, 2015, 15, 799-838.	2.5	163
10	FrÃ©chet Means for Distributions of Persistence Diagrams. Discrete and Computational Geometry, 2014, 52, 44-70.	0.6	118
11	Design and analysis of large-scale biological rhythm studies: a comparison of algorithms for detecting periodic signals in biological data. Bioinformatics, 2013, 29, 3174-3180.	4.1	94
12	3D phenotyping and quantitative trait locus mapping identify core regions of the rice genome controlling root architecture. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1695-704.	7.1	261
13	Failure filtrations for fenced sensor networks. International Journal of Robotics Research, 2012, 31, 1044-1056.	8.5	9
14	GiA Roots: software for the high throughput analysis of plant root system architecture. BMC Plant Biology, 2012, 12, 116.	3.6	279
15	Probability measures on the space of persistence diagrams. Inverse Problems, 2011, 27, 124007.	2.0	132
16	Persistent Intersection Homology. Foundations of Computational Mathematics, 2011, 11, 305-336.	2.5	12
17	Improving homology estimates with random walks. Inverse Problems, 2011, 27, 124002.	2.0	6
18	Lipschitz Functions Have L^p -Stable Persistence. Foundations of Computational Mathematics, 2010, 10, 127-139.	2.5	160

#	ARTICLE	IF	CITATIONS
19	Imaging and Analysis Platform for Automatic Phenotyping and Trait Ranking of Plant Root Systems. <i>Plant Physiology</i> , 2010, 152, 1148-1157.	4.8	306
20	Extending Persistence Using Poincaré and Lefschetz Duality. <i>Foundations of Computational Mathematics</i> , 2009, 9, 79-103.	2.5	86
21	Inferring Local Homology from Sampled Stratified Spaces. , 2007, , .		36
22	Stability of Persistence Diagrams. <i>Discrete and Computational Geometry</i> , 2007, 37, 103-120.	0.6	720
23	Alpha-Beta Witness Complexes. <i>Lecture Notes in Computer Science</i> , 2007, , 386-397.	1.3	6
24	Inferring Local Homology from Sampled Stratified Spaces. , 2007, , .		3
25	Extreme Elevation on a 2-Manifold. <i>Discrete and Computational Geometry</i> , 2006, 36, 553-572.	0.6	52
26	Loops in Reeb Graphs of 2-Manifolds. <i>Discrete and Computational Geometry</i> , 2004, 32, 231.	0.6	61
27	The third homology group of the moduli space of curves. <i>Duke Mathematical Journal</i> , 1991, 63, 25.	1.5	21
28	The second homology group of the mapping class group of an orientable surface. <i>Inventiones Mathematicae</i> , 1983, 72, 221-239.	2.5	201