

John Hopcroft

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.

26 papers	2,219 citations	14 h-index	30 g-index
30 ext. papers	2,567 ext. citations	3.3 avg, IF	4.45 L-index

#	Paper	IF	Citations
26	High-Dimensional Space 2020 , 4-28		1
25	Best-Fit Subspaces and Singular Value Decomposition (SVD) 2020 , 29-61		
24	Random Walks and Markov Chains 2020 , 62-108		
23	Algorithms for Massive Data Problems: Streaming, Sketching, and Sampling 2020 , 159-181		
22	Random Graphs 2020 , 215-273		
21	Topic Models, Nonnegative Matrix Factorization, Hidden Markov Models, and Graphical Models 2020 , 274-317		
20	Other Topics 2020 , 318-340		
19	Wavelets 2020 , 341-359		
18	Background Material 2020 , 360-410		
17	Foundations of Data Science 2020 ,		30
16	Stacked Generative Adversarial Networks 2017 ,		159
15	Local Computation of PageRank Contributions. <i>Internet Mathematics</i> , 2008 , 5, 23-45	0	33
14	Tracking evolving communities in large linked networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101 Suppl 1, 5249-53	11.5	176
13	The geometry of projective blending surfaces. <i>Artificial Intelligence</i> , 1988 , 37, 357-376	3.6	13
12	Algorithmic Problems in Modeling and Electronic Prototyping 1987 , 201-222		
11	Quadratic blending surfaces. <i>CAD Computer Aided Design</i> , 1986 , 18, 301-306	2.9	53
10	Motion of Objects in Contact. <i>International Journal of Robotics Research</i> , 1986 , 4, 32-46	5.7	34

9	The promise of electronic prototyping 1986 , 128-139		
8	Automatic surface generation in computer aided design. <i>Visual Computer</i> , 1985 , 1, 92-100	2.3	67
7	Movement Problems for 2-Dimensional Linkages. <i>SIAM Journal on Computing</i> , 1984 , 13, 610-629	1.1	60
6	On the movement of robot arms in 2-dimensional bounded regions 1982 ,		19
5	Polynomial-time algorithms for permutation groups 1980 ,		103
4	On Time Versus Space. <i>Journal of the ACM</i> , 1977 , 24, 332-337	2	153
3	Efficient Planarity Testing. <i>Journal of the ACM</i> , 1974 , 21, 549-568	2	702
2	Algorithm 447: efficient algorithms for graph manipulation. <i>Communications of the ACM</i> , 1973 , 16, 372-378	3	577
1	A V2 algorithm for determining isomorphism of planar graphs. <i>Information Processing Letters</i> , 1971 , 1, 32-34	0.8	39