E G Coffman

List of Publications by Year
in descending order

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32 papers	2,216 citations	361413 20 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	702 citing authors

#	Article	IF	Citations
1	Optimal scheduling for two-processor systems. Acta Informatica, 1972, 1, 200-213.	0.5	523
2	Scheduling independent tasks to reduce mean finishing time. Communications of the ACM, 1974, 17, 382-387.	4.5	436
3	Approximation Algorithms for Bin-Packing â€" An Updated Survey. CISM International Centre for Mechanical Sciences, Courses and Lectures, 1984, , 49-106.	0.6	217
4	Organizing matrices and matrix operations for paged memory systems. Communications of the ACM, 1969, 12, 153-165.	4.5	145
5	Polling Systems with Zero Switchover Times: A Heavy-Traffic Averaging Principle. Annals of Applied Probability, 1995, 5, 681.	1.3	76
6	Bin packing: Maximizing the number of pieces packed. Acta Informatica, 1978, 9, 263-271.	0.5	71
7	Polling Systems in Heavy Traffic: A Bessel Process Limit. Mathematics of Operations Research, 1998, 23, 257-304.	1.3	69
8	Further experimental data on the behavior of programs in a paging environment. Communications of the ACM, 1968, 11, 471-474.	4.5	61
9	A study of storage partitioning using a mathematical model of locality. Communications of the ACM, 1972, 15, 185-190.	4.5	57
10	Asymptotic Methods in the Probabilistic Analysis of Sequencing and Packing Heuristics. Management Science, 1988, 34, 266-290.	4.1	57
11	Record Allocation for Minimizing Expected Retrieval Costs on Drum-Like Storage Devices. Journal of the ACM, 1976, 23, 103-115.	2.2	48
12	Analysis of a Drum Input/Output Queue Under Scheduled Operation in a Paged Computer System. Journal of the ACM, 1969, 16, 73-90.	2.2	46
13	Analysis of Scanning Policies for Reducing Disk Seek Times. SIAM Journal on Computing, 1972, 1, 269-279.	1.0	45
14	Sequencing Problems in Two-Server Systems. Mathematics of Operations Research, 1985, 10, 585-598.	1.3	42
15	Packings in two dimensions: Asymptotic average-case analysis of algorithms. Algorithmica, 1993, 9, 253-277.	1.3	38
16	Algorithms minimizing mean flow time: schedule-length properties. Acta Informatica, 1976, 6, 1-14.	0.5	37
17	Polling and greedy servers on a line. Queueing Systems, 1987, 2, 115-145.	0.9	34
18	The Maximum of a Random Walk and Its Application to Rectangle Packing. Probability in the Engineering and Informational Sciences, 1998, 12, 373-386.	0.8	27

#	Article	IF	Citations
19	Optimum Head Separation in a Disk System with Two Read/Write Heads. Journal of the ACM, 1984, 31, 826-838.	2.2	23
20	Bandwidth packing. Algorithmica, 2001, 29, 70-88.	1.3	22
21	Analysis of Two Time-Sharing Algorithms Designed for Limited Swapping. Journal of the ACM, 1968, 15, 341-353.	2.2	21
22	A Combinatorial Problem Related to Interleaved Memory Systems. Journal of the ACM, 1973, 20, 39-45.	2.2	20
23	Queueing models of secondary storage devices. Queueing Systems, 1986, 1, 129-168.	0.9	20
24	Minimizing expected makespans on uniform processor systems. Advances in Applied Probability, 1987, 19, 177-201.	0.7	19
25	Synthesis of a Feedback Queueing Discipline for Computer Operation. Journal of the ACM, 1974, 21, 329-339.	2.2	13
26	Storage-Limited Queues in Heavy Traffic. Probability in the Engineering and Informational Sciences, 1991, 5, 499-522.	0.8	11
27	Bin packing with discrete item sizes, part II: Tight bounds on First Fit. , 1997, 10, 69-101.		10
28	Optimal directory placement on disk storage devices. Journal of the ACM, 1988, 35, 433-446.	2.2	9
29	Continuous Polling on Graphs. Probability in the Engineering and Informational Sciences, 1993, 7, 209-226.	0.8	8
30	Proof of the 4/3 conjecture for preemptive vs. nonpreemptive two-processor scheduling. , 1991, , .		5
31	Scheduling independent tasks to reduce mean finishing-time (extended abstract). Operating Systems Review (ACM), 1973, 7, 102-103.	1.9	3
32	Scheduling Two-Point Stochastic Jobs to Minimize the Makespan on Two Parallel Machines. Probability in the Engineering and Informational Sciences, 1997, 11, 95-105.	0.8	1