

David Gries

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.

83 papers	3,691 citations	22 h-index	60 g-index
89 ext. papers	4,136 ext. citations	1.4 avg, IF	4.94 L-index

#	Paper	IF	Citations
83	Development of Correct Programs 2022 , 141-168		
82	A principled approach to teaching OO first 2008 ,		10
81	Where is programming methodology these days?. <i>SIGCSE Bulletin</i> , 2002 , 34, 5-7	0	12
80	How mathematical thinking enhances computer science problem solving. <i>SIGCSE Bulletin</i> , 2001 , 33, 390-391	0	2
79	Adding the Everywhere Operator to Propositional Logic. <i>Journal of Logic and Computation</i> , 1998 , 8, 119-129	0.2	5
78	Audio formatting Making spoken text and math comprehensible. <i>International Journal of Speech Technology</i> , 1997 , 2, 21-31	1.3	1
77	Formal justification of underspecification for S5. <i>Information Processing Letters</i> , 1997 , 64, 115-121	0.8	
76	K-M-P string matching revisited. <i>Information Processing Letters</i> , 1997 , 64, 217-223	0.8	3
75	Data refinement and the transform 1996 , 205-232		
74	Audio formatting Making spoken text and math comprehensible. <i>International Journal of Speech Technology</i> , 1995 , 1, 21-31	1.3	6
73	Audio formatting Presenting structured information aurally. <i>Multimedia Systems</i> , 1995 , 3, 116-125	2.2	1
72	Teaching Math More Effectively, Through Computational Proofs. <i>American Mathematical Monthly</i> , 1995 , 102, 691	0.3	8
71	A NEW APPROACH TO TEACHING DISCRETE MATHEMATICS. <i>Primus</i> , 1995 , 5, 113-138	0.3	2
70	Avoiding the undefined by underspecification. <i>Lecture Notes in Computer Science</i> , 1995 , 366-373	0.9	27
69	Teaching as a logic tool (abstract). <i>SIGCSE Bulletin</i> , 1995 , 27, 384-385	0	
68	Equational propositional logic. <i>Information Processing Letters</i> , 1995 , 53, 145-152	0.8	16
67	Equational logic as a tool. <i>Lecture Notes in Computer Science</i> , 1995 , 1-17	0.9	

66	A Logical Approach to Discrete Math 1993 ,		117
65	Data Refinement and the Transform. <i>NATO ASI Series Series F: Computer and System Sciences</i> , 1993 , 93-119		1
64	Trace-based network proof systems. <i>ACM Transactions on Programming Languages and Systems</i> , 1992 , 14, 396-416	1.6	8
63	The 1989 90 Taulbee survey. <i>Communications of the ACM</i> , 1992 , 35, 133-143	2.5	11
62	A constructive proof of Vizing's theorem. <i>Information Processing Letters</i> , 1992 , 41, 131-133	0.8	91
61	Lectures on Data Refinement 1992 , 213-244		
60	Improving the curriculum through the teaching of calculation and discrimination. <i>Education and Computing</i> , 1991 , 7, 61-72		2
59	Teaching calculation and discrimination. <i>Communications of the ACM</i> , 1991 , 34, 44-55	2.5	54
58	The 1988 89 Taulbee survey report. <i>Communications of the ACM</i> , 1990 , 33, 160-169	2.5	4
57	The 1987 1988 Taulbee survey. <i>Communications of the ACM</i> , 1989 , 32, 1217-1224	2.5	5
56	Computing as a discipline. <i>Communications of the ACM</i> , 1989 , 32, 9-23	2.5	401
55	The Cornell commission: on Morris and the worm. <i>Communications of the ACM</i> , 1989 , 32, 706-709	2.5	20
54	The 1988 snowbird report: a discipline matures. <i>Communications of the ACM</i> , 1989 , 32, 294-297	2.5	3
53	An optimal parallel algorithm for generating combinations. <i>Information Processing Letters</i> , 1989 , 33, 135-139	1.1	14
52	An algorithm for transitive reduction of an acyclic graph. <i>Science of Computer Programming</i> , 1989 , 12, 151-155	1.1	13
51	Generating a random cyclic permutation. <i>BIT Numerical Mathematics</i> , 1988 , 28, 569-572	1.7	7
50	Developing a linear algorithm for cubing a cyclic permutation. <i>Science of Computer Programming</i> , 1988 , 11, 161-165	1.1	8
49	Computing as a discipline: preliminary report of the ACM task force on the core of computer science 1988 ,		13

48	The 1986-1987 Taulbee survey. <i>Communications of the ACM</i> , 1988 , 31, 984-991	2.5	11
47	Computing as a discipline: preliminary report of the ACM task force on the core of computer science. <i>SIGCSE Bulletin</i> , 1988 , 20, 41-41	0	5
46	The 1985-1986 Taulbee survey. <i>Communications of the ACM</i> , 1987 , 30, 688-694	2.5	11
45	Horner's rule and the computation of linear recurrences. <i>Information Processing Letters</i> , 1987 , 25, 237-240	0.8	8
44	In-situ inversion of a cyclic permutation. <i>Information Processing Letters</i> , 1987 , 24, 11-14	0.8	8
43	A note of Graham's convex hull algorithm. <i>Information Processing Letters</i> , 1987 , 25, 323-327	0.8	19
42	Modules for re-use. <i>Lecture Notes in Computer Science</i> , 1987 , 373-375	0.9	
41	A model and temporal proof system for networks of processes. <i>Distributed Computing</i> , 1986 , 1, 7-25	1.2	39
40	The 1984-1985 Taulbee survey. <i>Communications of the ACM</i> , 1986 , 29, 972-977	2.5	9
39	Imbalance between growth and funding in academic computing science: two trends c. <i>Communications of the ACM</i> , 1986 , 29, 870-878	2.5	7
38	A new notion of encapsulation. <i>ACM SIGPLAN Notices</i> , 1985 , 20, 131-139	0.2	9
37	General correctness: A unification of partial and total correctness. <i>Acta Informatica</i> , 1985 , 22, 67-83	0.9	36
36	A model and temporal proof system for networks of processes 1985 ,		15
35	A new notion of encapsulation 1985 ,		19
34	Behavior: a temporal approach to process modeling. <i>Lecture Notes in Computer Science</i> , 1985 , 237-254	0.9	3
33	Fault-tolerant broadcasts. <i>Science of Computer Programming</i> , 1984 , 4, 1-15	1.1	33
32	Finding repeated elements. <i>Science of Computer Programming</i> , 1982 , 2, 143-152	1.1	254
31	A note on a standard strategy for developing loop invariants and loops. <i>Science of Computer Programming</i> , 1982 , 2, 207-214	1.1	42

30	A proof technique for communicating sequential processes. <i>Acta Informatica</i> , 1981 , 15, 281-302	0.9	104
29	The Science of Programming 1981 ,		626
28	Computing Fibonacci numbers (and similarly defined functions) in log time. <i>Information Processing Letters</i> , 1980 , 11, 68-69	0.8	20
27	Controlled density sorting. <i>Information Processing Letters</i> , 1980 , 10, 169-172	0.8	6
26	Assignment and Procedure Call Proof Rules. <i>ACM Transactions on Programming Languages and Systems</i> , 1980 , 2, 564-579	1.6	45
25	The Schorr-Waite graph marking algorithm. <i>Acta Informatica</i> , 1979 , 11, 223-232	0.9	22
24	Is sometimes ever better than always? 1979 , 113-124		4
23	The Schorr-Waite graph marking algorithm 1979 , 58-69		3
22	Current ideas in programming methodology 1979 , 77-93		2
21	The multiple assignment statement 1979 , 100-112		1
20	Is Sometimes Ever Better Than Always?. <i>ACM Transactions on Programming Languages and Systems</i> , 1979 , 1, 258-265	1.6	9
19	A linear sieve algorithm for finding prime numbers. <i>Communications of the ACM</i> , 1978 , 21, 999-1003	2.5	21
18	ACM SIGPLAN history of programming languages conference ALGOL 60 language summary. <i>ACM SIGPLAN Notices</i> , 1978 , 13, 1	0.2	6
17	Parallel Programming. <i>Informatik-Fachberichte</i> , 1978 , 214-233		
16	An exercise in proving parallel programs correct. <i>Communications of the ACM</i> , 1977 , 20, 921-930	2.5	76
15	Some ideas on data types in high-level languages. <i>Communications of the ACM</i> , 1977 , 20, 414-420	2.5	29
14	Some ideas on data types in high level languages. <i>SIGMOD Record</i> , 1976 , 8, 120	1.1	
13	An axiomatic proof technique for parallel programs I. <i>Acta Informatica</i> , 1976 , 6, 319-340	0.9	693

12	Verifying properties of parallel programs. <i>Communications of the ACM</i> , 1976 , 19, 279-285	2.5	339
11	Some ideas on data types in high level languages. <i>ACM SIGPLAN Notices</i> , 1976 , 11, 120	0.2	1
10	What should we teach in an introductory programming course?. <i>SIGCSE Bulletin</i> , 1974 , 6, 81-89	0	23
9	Panel discussion on structured programming. <i>SIGCSE Bulletin</i> , 1974 , 6, 60-68	0	1
8	Describing an algorithm by Hopcroft. <i>Acta Informatica</i> , 1973 , 2, 97	0.9	56
7	Program Schemes with Pushdown Stores. <i>SIAM Journal on Computing</i> , 1972 , 1, 242-268	1.1	29
6	Programming by induction. <i>Information Processing Letters</i> , 1972 , 1, 100-107	0.8	5
5	Use of transition matrices in compiling. <i>Communications of the ACM</i> , 1968 , 11, 26-34	2.5	20
4	Translator writing systems. <i>Communications of the ACM</i> , 1968 , 11, 77-113	2.5	124
3	The ALCOR Illinois 7090/7094 post mortem dump. <i>Communications of the ACM</i> , 1967 , 10, 804-808	2.5	5
2	Characterizations of certain classes of norms. <i>Numerische Mathematik</i> , 1967 , 10, 30-41	2.2	19
1	Some techniques used in the ALCOR ILLINOIS 7090. <i>Communications of the ACM</i> , 1965 , 8, 496-500	2.5	15