

# David Gries

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5748450/david-gries-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | An axiomatic proof technique for parallel programs I. <i>Acta Informatica</i> , <b>1976</b> , 6, 319-340                                  | 0.9 | 693       |
| 82 | The Science of Programming <b>1981</b> ,  |     | 626       |
| 81 | Computing as a discipline. <i>Communications of the ACM</i> , <b>1989</b> , 32, 9-23  | 2.5 | 401       |
| 80 | Verifying properties of parallel programs. <i>Communications of the ACM</i> , <b>1976</b> , 19, 279-285                                   | 2.5 | 339       |
| 79 | Finding repeated elements. <i>Science of Computer Programming</i> , <b>1982</b> , 2, 143-152  | 1.1 | 254       |
| 78 | Translator writing systems. <i>Communications of the ACM</i> , <b>1968</b> , 11, 77-113   | 2.5 | 124       |
| 77 | A Logical Approach to Discrete Math <b>1993</b> ,   |     | 117       |
| 76 | A proof technique for communicating sequential processes. <i>Acta Informatica</i> , <b>1981</b> , 15, 281-302                             | 0.9 | 104       |
| 75 | A constructive proof of Vizing's theorem. <i>Information Processing Letters</i> , <b>1992</b> , 41, 131-133                               | 0.8 | 91        |
| 74 | An exercise in proving parallel programs correct. <i>Communications of the ACM</i> , <b>1977</b> , 20, 921-930                            | 2.5 | 76        |
| 73 | Describing an algorithm by Hopcroft. <i>Acta Informatica</i> , <b>1973</b> , 2, 97  | 0.9 | 56        |
| 72 | Teaching calculation and discrimination. <i>Communications of the ACM</i> , <b>1991</b> , 34, 44-55                                       | 2.5 | 54        |
| 71 | Assignment and Procedure Call Proof Rules. <i>ACM Transactions on Programming Languages and Systems</i> , <b>1980</b> , 2, 564-579        | 1.6 | 45        |
| 70 | A note on a standard strategy for developing loop invariants and loops. <i>Science of Computer Programming</i> , <b>1982</b> , 2, 207-214 | 1.1 | 42        |
| 69 | A model and temporal proof system for networks of processes. <i>Distributed Computing</i> , <b>1986</b> , 1, 7-25                         | 1.2 | 39        |
| 68 | General correctness: A unification of partial and total correctness. <i>Acta Informatica</i> , <b>1985</b> , 22, 67-83                    | 0.9 | 36        |
| 67 | Fault-tolerant broadcasts. <i>Science of Computer Programming</i> , <b>1984</b> , 4, 1-15   | 1.1 | 33        |

|    |  |     |    |
|----|--|-----|----|
| 66 | Some ideas on data types in high-level languages. <i>Communications of the ACM</i> , <b>1977</b> , 20, 414-420                             | 2.5 | 29 |
| 65 | Program Schemes with Pushdown Stores. <i>SIAM Journal on Computing</i> , <b>1972</b> , 1, 242-268  | 1.1 | 29 |
| 64 | Avoiding the undefined by underspecification. <i>Lecture Notes in Computer Science</i> , <b>1995</b> , 366-373                             | 0.9 | 27 |
| 63 | What should we teach in an introductory programming course?. <i>SIGCSE Bulletin</i> , <b>1974</b> , 6, 81-89                               | 0   | 23 |
| 62 | The Schorr-Waite graph marking algorithm. <i>Acta Informatica</i> , <b>1979</b> , 11, 223-232  | 0.9 | 22 |
| 61 | A linear sieve algorithm for finding prime numbers. <i>Communications of the ACM</i> , <b>1978</b> , 21, 999-1003                          | 2.5 | 21 |
| 60 | The Cornell commission: on Morris and the worm. <i>Communications of the ACM</i> , <b>1989</b> , 32, 706-709                               | 2.5 | 20 |
| 59 | Computing Fibonacci numbers (and similarly defined functions) in log time. <i>Information Processing Letters</i> , <b>1980</b> , 11, 68-69 | 0.8 | 20 |
| 58 | Use of transition matrices in compiling. <i>Communications of the ACM</i> , <b>1968</b> , 11, 26-34  | 2.5 | 20 |
| 57 | A note of Graham's convex hull algorithm. <i>Information Processing Letters</i> , <b>1987</b> , 25, 323-327                                | 0.8 | 19 |
| 56 | A new notion of encapsulation <b>1985</b> ,  |     | 19 |
| 55 | Characterizations of certain classes of norms. <i>Numerische Mathematik</i> , <b>1967</b> , 10, 30-41                                      | 2.2 | 19 |
| 54 | Equational propositional logic. <i>Information Processing Letters</i> , <b>1995</b> , 53, 145-152  | 0.8 | 16 |
| 53 | A model and temporal proof system for networks of processes <b>1985</b> ,  |     | 15 |
| 52 | Some techniques used in the ALCOR ILLINOIS 7090. <i>Communications of the ACM</i> , <b>1965</b> , 8, 496-500                               | 2.5 | 15 |
| 51 | An optimal parallel algorithm for generating combinations. <i>Information Processing Letters</i> , <b>1989</b> , 33, 135-139               | 1.1 | 14 |
| 50 | An algorithm for transitive reduction of an acyclic graph. <i>Science of Computer Programming</i> , <b>1989</b> , 12, 151-155              | 1.1 | 13 |
| 49 | Computing as a discipline: preliminary report of the ACM task force on the core of computer science <b>1988</b> ,                          |     | 13 |

|    |  |     |    |
|----|--|-----|----|
| 48 | Where is programming methodology these days?. <i>SIGCSE Bulletin</i> , <b>2002</b> , 34, 5-7   | 0   | 12 |
| 47 | The 1989-90 Taulbee survey. <i>Communications of the ACM</i> , <b>1992</b> , 35, 133-143   | 2.5 | 11 |
| 46 | The 1985-1986 Taulbee survey. <i>Communications of the ACM</i> , <b>1987</b> , 30, 688-694   | 2.5 | 11 |
| 45 | The 1986-1987 Taulbee survey. <i>Communications of the ACM</i> , <b>1988</b> , 31, 984-991   | 2.5 | 11 |
| 44 | A principled approach to teaching OO first <b>2008</b> ,   |     | 10 |
| 43 | The 1984-1985 Taulbee survey. <i>Communications of the ACM</i> , <b>1986</b> , 29, 972-977   | 2.5 | 9  |
| 42 | A new notion of encapsulation. <i>ACM SIGPLAN Notices</i> , <b>1985</b> , 20, 131-139  | 0.2 | 9  |
| 41 | Is Sometimes Ever Better Than Always?. <i>ACM Transactions on Programming Languages and Systems</i> , <b>1979</b> , 1, 258-265                 | 1.6 | 9  |
| 40 | Teaching Math More Effectively, Through Computational Proofs. <i>American Mathematical Monthly</i> , <b>1995</b> , 102, 691                    | 0.3 | 8  |
| 39 | Trace-based network proof systems. <i>ACM Transactions on Programming Languages and Systems</i> , <b>1992</b> , 14, 396-416                    | 1.6 | 8  |
| 38 | In-situ inversion of a cyclic permutation. <i>Information Processing Letters</i> , <b>1987</b> , 24, 11-14                                     | 0.8 | 8  |
| 37 | Developing a linear algorithm for cubing a cyclic permutation. <i>Science of Computer Programming</i> , <b>1988</b> , 11, 161-165              | 1.1 | 8  |
| 36 | Imbalance between growth and funding in academic computing science: two trends c. <i>Communications of the ACM</i> , <b>1986</b> , 29, 870-878 | 2.5 | 7  |
| 35 | Generating a random cyclic permutation. <i>BIT Numerical Mathematics</i> , <b>1988</b> , 28, 569-572   | 1.7 | 7  |
| 34 | Audio formatting Making spoken text and math comprehensible. <i>International Journal of Speech Technology</i> , <b>1995</b> , 1, 21-31        | 1.3 | 6  |
| 33 | Controlled density sorting. <i>Information Processing Letters</i> , <b>1980</b> , 10, 169-172  | 0.8 | 6  |
| 32 | ACM SIGPLAN history of programming languages conference ALGOL 60 language summary. <i>ACM SIGPLAN Notices</i> , <b>1978</b> , 13, 1            | 0.2 | 6  |
| 31 | Adding the Everywhere Operator to Propositional Logic. <i>Journal of Logic and Computation</i> , <b>1998</b> , 8, 119-129                      | 1.2 | 5  |

|    |   |     |   |
|----|---|-----|---|
| 30 | The 1987-1988 Taulbee survey. <i>Communications of the ACM</i> , <b>1989</b> , 32, 1217-1224  | 2.5 | 5 |
| 29 | Computing as a discipline: preliminary report of the ACM task force on the core of computer science. <i>SIGCSE Bulletin</i> , <b>1988</b> , 20, 41-41 | 0   | 5 |
| 28 | Programming by induction. <i>Information Processing Letters</i> , <b>1972</b> , 1, 100-107  | 0.8 | 5 |
| 27 | The ALCOR Illinois 7090/7094 post mortem dump. <i>Communications of the ACM</i> , <b>1967</b> , 10, 804-808   | 2.5 | 5 |
| 26 | The 1988-89 Taulbee survey report. <i>Communications of the ACM</i> , <b>1990</b> , 33, 160-169   | 2.5 | 4 |
| 25 | Is sometimes ever better than always? <b>1979</b> , 113-124   |     | 4 |
| 24 | K-M-P string matching revisited. <i>Information Processing Letters</i> , <b>1997</b> , 64, 217-223  | 0.8 | 3 |
| 23 | The 1988 snowbird report: a discipline matures. <i>Communications of the ACM</i> , <b>1989</b> , 32, 294-297  | 2.5 | 3 |
| 22 | The Schorr-Waite graph marking algorithm <b>1979</b> , 58-69  |     | 3 |
| 21 | Behavior: a temporal approach to process modeling. <i>Lecture Notes in Computer Science</i> , <b>1985</b> , 237-254                                   | 0.9 | 3 |
| 20 | A NEW APPROACH TO TEACHING DISCRETE MATHEMATICS. <i>Primus</i> , <b>1995</b> , 5, 113-138   | 0.3 | 2 |
| 19 | Improving the curriculum through the teaching of calculation and discrimination. <i>Education and Computing</i> , <b>1991</b> , 7, 61-72              |     | 2 |
| 18 | Current ideas in programming methodology <b>1979</b> , 77-93  |     | 2 |
| 17 | How mathematical thinking enhances computer science problem solving. <i>SIGCSE Bulletin</i> , <b>2001</b> , 33, 390-391                               | 0   | 2 |
| 16 | Audio formatting Making spoken text and math comprehensible. <i>International Journal of Speech Technology</i> , <b>1997</b> , 2, 21-31               | 1.3 | 1 |
| 15 | Audio formatting Presenting structured information aurally. <i>Multimedia Systems</i> , <b>1995</b> , 3, 116-125                                      | 2.2 | 1 |
| 14 | The multiple assignment statement <b>1979</b> , 100-112   |     | 1 |
| 13 | Some ideas on data types in high level languages. <i>ACM SIGPLAN Notices</i> , <b>1976</b> , 11, 120  | 0.2 | 1 |

- 12 Panel discussion on structured programming. *SIGCSE Bulletin*, **1974**, 6, 60-68 0 1
- 11 Data Refinement and the Transform. *NATO ASI Series Series F: Computer and System Sciences*, **1993**, 93-119 1
- 10 Formal justification of underspecification for S5. *Information Processing Letters*, **1997**, 64, 115-121 0.8
- 9 Teaching as a logic tool (abstract). *SIGCSE Bulletin*, **1995**, 27, 384-385 0
- 8 Horner's rule and the computation of linear recurrences. *Information Processing Letters*, **1987**, 25, 237-240 0.8
- 7 Some ideas on data types in high level languages. *SIGMOD Record*, **1976**, 8, 120 1.1
- 6 Modules for re-use. *Lecture Notes in Computer Science*, **1987**, 373-375 0.9
- 5 Lectures on Data Refinement **1992**, 213-244
- 4 Equational logic as a tool. *Lecture Notes in Computer Science*, **1995**, 1-17 0.9
- 3 Data refinement and the transform **1996**, 205-232
- 2 Parallel Programming. *Informatik-Fachberichte*, **1978**, 214-233
- 1 Development of Correct Programs **2022**, 141-168