Scientific publications of Helmut Prodinger (October 2003)

[1] H. Prodinger and F.J. Urbanek. Language operators related to init. *Theoretical Computer Science*, 8:161–175, 1979.

[2] H. Prodinger. On a generalization of the Dyck–language over a two letter alphabet. *Discrete Mathematics*, 28:269–276, 1979.

[3] H. Prodinger and F.J. Urbanek. Infinite 0-1–sequences without long adjacent identical blocks. *Discrete Mathematics*, 28:277–289, 1979.

[4] W. Kuich, H. Prodinger, and F.J. Urbanek. On the height of derivation trees. In H. Maurer, editor, *Automata, Languages and Programming*, volume 71, pages 370–384, 1979.

[5] H. Prodinger. On the interpolation of D0L–sequences. *Theoretical Computer Science*, 10:107–108, 1980.

[6] H. Prodinger. Congruences defined by languages and filters. *Information and Control*, 44:36–46, 1980.

[7] H. Prodinger. Topologies on free monoids defined by closure operators of a special type. *RAIRO Theoretical Informatics and Applications*, 14:225–237, 1980.

[8] H. Prodinger. The average height of a stack where three operations are allowed and some related problems. *Journal of Combinatorics, Information and System Sciences*, 5:287–304, 1980.

[9] H. Prodinger. On the number of Fibonacci partitions of a set. *The Fibonacci Quarterly*, 19:463–466, 1981.

[10] P. Kirschenhofer and H. Prodinger. On the average height of monotonically labelled binary trees. In *Finite and Infinite Sets*, volume 37, pages 509–526. North-Holland, 1981. Proceedings of Janos Bolyai Conference on Combinatorics Eger (Hungary).

[11] H. Prodinger. Generalizing the sum of digits function. *SIAM Journal on Algebraic and Discrete Methods*, 3:35–42, 1982.

[12] H. Prodinger and R.F. Tichy. Fibonacci numbers of graphs. *The Fibonacci Quarterly*, 19:16–21, 1982.

[13] H. Prodinger. A note on a result of R. Kemp on r–tuply rooted planted plane trees. *Computing*, 28:363–366, 1982.

[14] P. Kirschenhofer and H. Prodinger. On the average oscillation of the contour of monotonically labelled ordered trees. In *Proceedings of the Second World Conference on Mathematics at the Service of Man (Las Palmas)*, pages 394–399, 1982.

[15] P. Kirschenhofer and H. Prodinger. On the average hyperoscillations of planted plane trees. *Combinatorica*, 2:177–186, 1982.

[16] H. Prodinger. On the number of partitions of $\{1, \ldots, n\}$ into two sets of equal cardinalities and equal sums. *Canadian Mathematical Bulletin*, 25:238–241, 1982.

[17] H. Prodinger. Non-repetitive sequences and Gray code. *Discrete Mathematics*, 43:113–116, 1983.

[18] H. Prodinger. Ordered Fibonacci partitions. *Canadian Mathematical Bulletin*, 26:312–316, 1983.

[19] P. Kirschenhofer, H. Prodinger, and R.F. Tichy. Fibonacci numbers of graphs II. *The Fibonacci Quarterly*, 21:219–229, 1983.

[20] H. Prodinger. Topologies over free monoids induced by families of languages. *RAIRO Theoretical Informatics and Applications*, 17:285–290, 1983.

[21] H. Prodinger and G. Thierrin. Towards a general concept of hypercodes. *Journal of Information and Optimization Sciences*, 4:255–268, 1983.

[22] H. Prodinger. A correspondence between ordered trees and noncrossing partitions. *Discrete Mathematics*, 46:205–206, 1983.

[23] H. Prodinger. On the number of combinations without a fixed distance. *Journal of Combinatorial Theory,* Series A, 35:362–365, 1983.

[24] H. Prodinger. A subword version of d'Ocagne's formula. *Utilitas Mathematica*, 24:125–129, 1983.

[25] H. Prodinger. An elementary approach to the stack size of regularly distributed binary trees. *Soochow Journal of Mathematics*, 9:193–196, 1983.

[26] H. Prodinger. The height of planted plane trees revisited. *Ars Combinatoria*, 16–B:51–55, 1983.

[27] H. Prodinger. Abzählprobleme bei Bäumen. In G.Baron and P. Kirschenhofer, editors, *Publications de l'IRMA (Straßbourg)*, pages 167–173, 1983.

[28] H. Prodinger and R.F. Tichy. Über ein zahlentheoretisches Problem aus der Informatik. *Sitzungsberichte der Österreichischen Akademie der Wissenschaften, Abteilung II*, 192:385–396, 1983.

[29] H. Prodinger. Representations of 0 as a weighted sum of the numbers $-n, \ldots, n$. *Journal of Combinatorics, Information and System Sciences*, 8:271–276, 1983.

[30] H. Prodinger. Quelques techniques analytiques pour l'étude asymptotique des paramètres dans les arbres. In *Sommerschule Ile de Ré , (Vortragsausarbeitung), english version in EATCS Bulletin 47 (1992), 180–199*, 1983.

[31] H. Prodinger and F.J.Urbanek. On monotone functions of tree structures. *Discrete Applied Mathematics*, 5:223–239, 1983.

[32] P. Kirschenhofer and H. Prodinger. Recursion depth analysis for special tree traversal algorithms. In J. Paradaens, editor, *Automata, Languages and Programming*, volume 172 of *Lecture Notes in Computer Science*, pages 303–311, 1984.

[33] H. Prodinger. Analysis of an algorithm to construct Fibonacci partitions. *RAIRO Theoretical Informatics and Applications*, 18:387–394, 1984.

[34] H. Prodinger. On the altitude of specified nodes in random trees. *Journal of Graph Theory*, 8:481–485, 1984.

[35] H. Prodinger. The average height of the second highest leaf of a planted plane tree. *European Journal of Combinatorics*, 5:351–357, 1984.

[36] P. Kirschenhofer and H. Prodinger. A short proof for a partition identity of Hwang and Wei. *Discrete Mathematics*, 52:305–306, 1984.

[37] H. Prodinger. On the number of partitions of $\{1, \ldots, n\}$ into r sets of equal cardinalities and sums. *Tamkang Journal of Mathematics*, 15:161–164, 1984.

[38] H. Prodinger. Eine Bemerkung zur asymptotischen Bestimmung der höheren Momente der Anzahl der Inversionen. *Anzeiger der Österreichischen Akademie der Wissenschaften*, 121:141–143, 1984.

[39] P. Kirschenhofer and H. Prodinger. Subblock occurrences in positional number systems and Gray code representation. *Journal of Information and Optimization Sciences*, 5:29–42, 1984.

[40] H. Prodinger. Die Bestimmung gewisser Parameter von binären Bäumen mit Hilfe analytischer Methoden. In E. Hlawka, editor, *Zahlentheoretische Analysis*, volume 1114 of *Lecture Notes in Mathematics*, pages 118–133, 1985.

[41] P. Kirschenhofer, H. Prodinger, and R.F. Tichy. Über Mittelwerte gewichteter Ziffernsummen und verwandte Probleme. In E. Hlawka, editor, *Zahlentheoretische Analysis*, volume 1114 of *Lecture Notes in Mathematics*, pages 55–65, 1985.

[42] H. Prodinger. Einige Bemerkungen zu einer Arbeit von W. Knödel über das mittlere Verhalten von on-line–Packungsalgorithmen. *EIK*, 21:3–7, 1985.

[43] G. Baron, F.T. Boesch, H. Prodinger, R.F. Tichy, and J.F.Wang. The number of spanning trees in the square of a cycle. *The Fibonacci Quarterly*, 23:258–264, 1985.

[44] H. Prodinger. The average height of the d–th highest leaf of a planted plane tree. *Networks*, 16:67–75, 1985.

[45] W. Panny and H. Prodinger. The expected height of paths for several notions of height. *Studia Scientiarum Mathematicarum Hungarica*, 20:119–132, 1985.

[46] P. Flajolet and H. Prodinger. Register allocation for unary–binary trees. *SIAM Journal on Computing*, 15:629–640, 1986.

[47] P. Kirschenhofer, H. Prodinger, and R.F. Tichy. Fibonacci numbers of graphs III. In *Proceedings of the First International Conference on Fibonacci Numbers and Applications*, pages 105–120. D. Reidel, 1986.

[48] P. Kirschenhofer and H. Prodinger. Two selection problems revisited. *Journal of Combinatorial Theory Series*, A 42:310–316, 1986.

[49] P. Kirschenhofer and H. Prodinger. Some further results on digital search trees. In *Automata, Languages and Programming*, volume 229 of *Lecture Notes in Computer Science*, pages 177–185, 1986.

[50] F.T. Boesch and H. Prodinger. Spanning tree formulas and Chebyshev polynomials. *Graphs and Combinatorics*, 2:191–200, 1986.

[51] H. Prodinger. Some recent results on the register function of a binary tree. *Annals of Discrete Mathematics*, 33:241– 260, 1987.

[52] P. Kirschenhofer, H. Prodinger, and R.F. Tichy. A contribution to the analysis of in situ permutation. *Glasnik Mathematicki*, 22(42):269–278, 1987.

[53] P. Flajolet and H. Prodinger. Level number sequences for trees. *Discrete Mathematics*, 65:149–156, 1987.

[54] P. Kirschenhofer and H. Prodinger. On the recursion depth of special tree traversal algorithms. *Information and Computation*, 74:15–32, 1987.

[55] H. Prodinger. Über längste 1-Teilfolgen in 0-1–Folgen. In E. Hlawka, editor, *Zahlentheoretische Analysis II*, volume 1262 of *Lecture Notes in Mathematics*, pages 124–133, 1987.

[56] P. Kirschenhofer and H. Prodinger. Asymptotische Untersuchungen über charakteristische Parameter von Suchbäumen. In E. Hlawka, editor, *Zahlentheoretische Analysis II*, volume 1262 of *Lecture Notes in Mathematics*, pages 93–107, 1987.

[57] P. Kirschenhofer and H. Prodinger und J. Schoißengeier. Zur Auswertung gewisser numerischer Reihen mit Hilfe modularer Funktionen. In E. Hlawka, editor, *Zahlentheoretische Analysis II*, volume 1262 of *Lecture Notes in Mathematics*, pages 108–110, 1987.

[58] P. Kirschenhofer, H. Prodinger, and R.F. Tichy. Über einige Funktional–Differentialgleichungen in der Analyse von Algorithmen. In E. Hlawka, editor, *Zahlentheoretische Analysis II*, volume 1262 of *Lecture Notes in Mathematics*, pages 111–123, 1987.

[59] P. Kirschenhofer and H. Prodinger. Further results on digital search trees. *Theoretical Computer Science*, 58:143–154, 1988.

[60] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Do we really need to balance patricia tries? In *Lecture Notes in Computer Science*, volume 317 of *Automata, Languages and Programming*, pages 302–316, 1988.

[61] P. Kirschenhofer and H. Prodinger. b-tries: a paradigm for the application of numbertheoretic methods in the analysis of algorithms. In *Contributions to General Algebra*, volume 6, pages 141–153. Hölder–Pichler–Tempsky–Teubner, 1988.

[62] P. Kirschenhofer and H. Prodinger. Eine Anwendung der Theorie der Modulfunktionen in der Informatik. *Sitzungsberichte der Österreichischen Akademie der Wissenschaften*, 197:339–366, 1988.

[63] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. On the balance property of patricia tries: External path length view. *Theoretical Computer Science*, 68:1–17, 1989.

[64] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Digital search trees – further results on a fundamental data structure. In G.X. Ritter, editor, *Information Processing 89*, pages 443–447, 1989.

[65] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. On the variance of the external path length in a symmetric digital trie. *Discrete Applied Mathematics*, 25:129–143, 1989.

[66] P. Kirschenhofer and H. Prodinger. On the analysis of probabilistic counting. In E. Hlawka and R.F. Tichy, editors, *Number–theoretic Analysis*, volume 1452 of *Lecture Notes in Mathematics*, pages 117–120, 1990.

[67] H. Prodinger. Further results on a problem of Knödel concerning the analysis of bin–packing. In E. Hlawka and R.F. Tichy, editors, *Number–theoretic Analysis*, volume 1452 of *Lecture Notes in Mathematics*, pages 193–198, 1990.

[68] P. Kirschenhofer and H. Prodinger. On some applications of formulæ of Ramanujan in the analysis of algorithms. *Mathematika*, 38:14–33, 1991.

[69] P. Kirschenhofer and H. Prodinger. Approximate counting: An alternative approach. *RAIRO Theoretical Informatics and Applications*, 25:43–48, 1991.

[70] H. Prodinger. Hypothetic analyses: Approximate counting in the style of Knuth, path length in the style of Flajolet. *Theoretical Computer Science*, 100:243–251, 1992.

[71] H. Prodinger. Einige Bemerkungen zu einer Bin–Packing Aufgabe von W. Knödel. *Computing*, 47:247–254, 1992.

[72] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. How to count quickly and accurately: A unified analysis of probabilistic counting and other related problems. In W. Kuich, editor, *Automata, Languages and Programming*, volume 623 of *Lecture Notes in Computer Science*, pages 211–222, 1992.

[73] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Probabilistic modeling of data structures on words. *Theoretical Computer Science*, 106:395–400, 1992.

[74] P. Kirschenhofer and H. Prodinger. A coin tossing algorithm for counting large numbers of events. *Mathematica Slovaca*, 42:531–545, 1992.

4

[75] H. Prodinger. External internal nodes in digital search trees via Mellin transforms. *SIAM Journal on Computing*, 21:1180–1183, 1992.

[76] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Multidimensional digital searching and some new parameters in tries. *International Journal of Foundations of Computer Science*, 4:69–84, 1993.

[77] H. Prodinger. How to select a loser. *Discrete Mathematics*, 120:149–159, 1993.

[78] P. Kirschenhofer and H. Prodinger. A result in order statistics related to probabilistic counting. *Computing*, 51:15–27, 1993.

[79] H. Prodinger. How to advance on a stairway by coin flippings. In *Proceedings "Applications of Fibonacci Numbers, Volume 5"*, pages 473–479. Kluwer, 1993.

[80] P. Grabner, P. Kirschenhofer, H. Prodinger, and R. Tichy. On the moments of the sum of digits function. In *Proceedings "Applications of Fibonacci Numbers, Volume 5"*, pages 263–271. Kluwer, 1993.

[81] H. Prodinger and W. Szpankowski. A note on binomial recurrences arising in the analysis of algorithms (letter to the editor). *Information Processing Letters*, 46:309–311, 1993.

[82] H. Prodinger. Combinatorial problems of geometrically distributed random variables and applications in computer science. In V. Strehl and R. König, editors, *Publications de l'IRMA (Straßbourg)*, volume 30, pages 87–95, 1993.

[83] P. Grabner, H. Prodinger, and R.F. Tichy. Asymptotic analysis of a class of functional equations and applications. *Journal de Théorie des Nombres de Bordeaux*, 5:365–381, 1993.

[84] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Digital search trees again revisited: The internal path length perspective. *SIAM Journal on Computing*, 23:598–616, 1994.

[85] P. Kirschenhofer and H. Prodinger. The path length of random skip lists. *Acta Informatica*, 31:775–792, 1994.

[86] P.Grabner and H. Prodinger. The Fibonacci killer. *The Fibonacci Quarterly*, 32:389–396, 1994.

[87] H. Prodinger. Some information about the binomial transform. *The Fibonacci Quarterly*, 32:412–415, 1994.

[88] P. Kirschenhofer and H. Prodinger. The higher moments of the number of returns of a simple random walk. *Advances in Applied Probability*, 26:561–563, 1994.

[89] H. Prodinger. An asymptotic comment on a paper by Analyti and Pramanik. *Information Processing Letters*, 49:327–328, 1994.

[90] P. Flajolet, P. Grabner, P. Kirschenhofer, H. Prodinger, and R.F. Tichy. Mellin transforms and asymptotics: Digital sums. *Theoretical Computer Science*, 123:291–314, 1994.

[91] P. Kirschenhofer and H. Prodinger. Multidimensional searching – alternative data structures. *Random Structures and Algorithms*, 5:123–134, 1994.

[92] H. Prodinger. Some polynomials related to the Fibonacci polynomials. *EATCS Bulletin*, 53:248–250, 1994.

[93] H. Prodinger. Knuth's old sum – a survey. *EATCS Bulletin*, 54:232–245, 1994.

[94] H. Prodinger. Approximate counting via Euler transform. *Mathematica Slovaka*, 44:569–574, 1994.

[95] P. Flajolet, P. Grabner, P. Kirschenhofer, and H. Prodinger. On Ramanujan's $Q(n)$–function. *Journal of Computational and Applied Mathematics*, 58:103–116, 1995.

[96] H. Prodinger. Geometric distributions and forbidden subwords. *The Fibonacci Quarterly*, 33:139–141, 1995.

[97] H. Prodinger. Comments on the analysis of parameters in a random graph model. *RAIRO Theoretical Informatics and Applications*, 29:245–253, 1995.

[98] W. Panny and H. Prodinger. Bottom–up mergesort: A detailed analysis. *Algorithmica*, 14:340–354, 1995.

[99] P. Kirschenhofer, C. Martínez, and H. Prodinger. Analysis of an optimized search algorithm for skip lists. *Theoretical Computer Science*, 144:199–220, 1995.

[100] H. Prodinger and W. Szpankowski (eds.). Special volume on the mathematical analysis of algorithms. *Theoretical Computer Science*, 144, 1995.

[101] H. Prodinger. Solution of a problem of Yekutieli and Mandelbrot. In R. Baeza, E. Goles, and P. V. Poblete, editors, *LATIN 95*, volume 911 of *Lecture Notes in Computer Science*, pages 461–468, 1995.

[102] H. Prodinger. Digital search trees and basic hypergeometric functions. *EATCS Bulletin*, 56:112–115, 1995.

[103] H. Prodinger. Multiple quickselect — Hoare's find algorithm for several elements. *Information Processing Letters*, 56:123–129, 1995.

[104] P. Grabner and H. Prodinger. Asymptotic analysis of the moments of the Cantor distribution. *Statistics and Probability Letters*, 26:243–248, 1996.

[105] H. Prodinger. Combinatorics of geometrically distributed random variables: Left-to-right maxima. *Discrete Mathematics*, 153:253–270, 1996.

[106] A. Knopfmacher and H. Prodinger. Explicit and asymptotic formulæ for average values of order statistics of the Cantor distribution. *Statistics and Probability Letters*, 27:189–194, 1996.

[107] H. Prodinger. Asymptotics of the Luria–Delbrück distribution via singularity analysis. *Journal of Applied Probability*, 33:282–283, 1996.

[108] H. Prodinger. Simplification of two papers of Ferri, Faccio, and D'Amico. *http://info.tuwien.ac.at/theoinf/proding.htm*, 1996.

[109] H. Prodinger. The asymptotic behavior of the golden numbers. *The Fibonacci Quarterly*, 34:224–225, 1996.

[110] P. Kirschenhofer and H. Prodinger. The number of winners a in discrete geometrically distributed sample. *Annals in Applied Probability*, 6:687–694, 1996.

[111] P. Kirschenhofer, H. Prodinger, and W. Szpankowski. Analysis of a splitting process arising in probabilistic counting and other related algorithms. *Random Structures and Algorithms*, 9:379–401, 1996.

[112] H. Prodinger. The level of nodes in heap ordered trees. *http://info.tuwien.ac.at/theoinf/proding.htm*, 1996.

[113] H. Prodinger. Explicit formulæ for some numerical triangles of Z. W. Trzaska. *http://info.tuwien.ac.at/theoinf/proding.htm*, 1996.

[114] H. Prodinger. Descendants in heap ordered trees – or – a triumph of computer algebra. *Electronic Journal of Combinatorics*, 3:R29 (9 pages), 1996.

[115] H. Prodinger. A note on the distribution of the three types of nodes in uniform binary trees. *Séminaire Lotharingien de Combinatoire*, 38:P2 (5 pages), 1996.

[116] H. Prodinger. A bijection between coloured trees and set partitions. *http://info.tuwien.ac.at/theoinf/proding.htm*, 1996.

[117] H. Prodinger. Depth and path length of heap ordered trees. *International Journal of Foundations of Computer Science*, 7:293–299, 1996.

[118] P. Kirschenhofer and H. Prodinger. Return statistics of simple random walks. *Journal of Statistical Planning and Inference*, 54:67–74, 1996.

[119] P. Grabner and H. Prodinger. The optimality of an algorithm of Reingold and Supowit. *Journal of Automata, Languages, and Combinatorics*, 1:5–11, 1996.

[120] X. Gourdon and H. Prodinger. A generating function approach to random subgraphs of the n–cycle. *Discrete Mathematics*, 169:227–232, 1997.

[121] H. Prodinger. On a question of Cooper and Kennedy. *The Fibonacci Quarterly*, 35:135–136, 1997.

[122] H. Prodinger. On a problem of Yekutieli and Mandelbrot about the bifurcation ratio of binary trees. *Theoretical Computer Science*, 181:181–194, 1997.

[123] P. Grabner and H. Prodinger. Maximum statistics of n random variables distributed by the negative binomial distribution. *Combinatorics, Probability, and Computing*, 6:179–184, 1997.

[124] P. Kirschenhofer, C. Martínez, and H. Prodinger. Analysis of Hoare's find algorithm with median–of–three partition. *Random Structures and Algorithms*, 10:143–156, 1997.

[125] A. and H. Prodinger. Descendants and ascendants in binary trees. *Discrete Mathematics and Theoretical Computer Science*, 1:247–266, 1997.

[126] P. Kirschenhofer and H. Prodinger. Comparisons in Hoare's Find algorithm. *Combinatorics, Probability and Computing*, 7:111–120, 1998.

[127] H. Prodinger. The Cantor–Fibonacci distribution. In *Proceedings "Applications of Fibonacci Numbers, Volume 7"*, pages 311–318. Kluwer, 1998.

[128] C. Martínez, A. Panholzer, and H. Prodinger. On the number of descendants and ascendants in random search trees. *Electronic Journal on Combinatorics (to appear)*, 5:R20, 29 pages + Appendix (10 pages), 1998.

[129] H. Prodinger. Combinatorial sums in the analysis of a generalized van der Pol equation. *Maple Technical Newsletter*, 5:33–36, 1998.

[130] P. Grabner, P. Kirschenhofer, and H. Prodinger. The sum–of–digits function for complex bases. *J. London Math. Soc.*, 57:20–40, 1998.

[131] P. Grabner and H. Prodinger. An asymptotic study of a recursion occurring in the analysis of an algorithm on broadcast communication. *Information Processing Letters*, 65:89–93, 1998.

[132] A. Panholzer and H. Prodinger. A generating functions approach for the analysis of grand averages for multiple quickselect. *Random Structures and Algorithms*, 1999.

[133] A. Knopfmacher and H. Prodinger. On Carlitz compositions. *European Journal on Combinatorics*, 19:579–589, 1998.

[134] P. Flajolet and H. Prodinger. On Stirling numbers for complex arguments and Hankel contours. *SIAM Journal on Discrete Mathematics*, 12:155–159, 1999.

[135] A. Panholzer and H. Prodinger. Average case-analysis of priority trees: A structure for priority queue administration. *Algorithmica*, 22:600–630, 1998.

[136] A. Panholzer and H. Prodinger. Towards a more precise analysis of an algorithm to generate binary trees : A tutorial. *The Computer Journal*, 41:201–204, 1998.

[137] A. Panholzer and H. Prodinger. An analytic approach for the analysis of rotations in fringe-balanced binary search trees. *Annals of Combinatorics*, 2:173–184, 1998.

[138] A. Panholzer and H. Prodinger. Two proofs of Filipponi's formula for Lucas numbers of odd index. *The Fibonacci Quarterly, to appear*, 38:165–166, 2000.

[139] C. Martínez, A. Panholzer, and H. Prodinger. Partial match queries in relaxed multidimensional search trees. *Algorithmica*, 29:181–204, 2001.

[140] H. Prodinger and W. Szpankowski (eds.). Special issue on average case analysis of algorithms. *Algorithmica*, 22.4, 1998.

[141] H. Prodinger and W. Szpankowski. Philippe Flajolet's research in analysis of algorithms and combinatorics. *Algorithmica*, 22:366–387, 1998.

[142] H. Prodinger. Epidemics with two levels of mixing: The exact moments. *SADIO*, 2:1–4, 1999.

[143] A. Knopfmacher and H. Prodinger. Combinatorics of geometrically distributed random variables: Value and position of the rth left-to-right maximum. *Discrete Mathematics*, 226:255–267, 2001.

[144] J. W. Moon and H. Prodinger. A bijective proof of an identity concerning nodes of fixed degree in planted plane trees. *Ars Combinatoria*, 55:91–92, 2000.

[145] P. Grabner, A. Knopfmacher, and H. Prodinger. Combinatorics of geometrically distributed random variables: Run statistics. *LATIN 2000, Lecture Notes in Computer Science 1776 (2000)*, pages 457–462, 2000.

[146] H. Prodinger. Combinatorics of geometrically distributed random variables: Inversions and a parameter of Knuth. *Annals of Combinatorics*, 5:241–250, 2001.

[147] H. Prodinger. On Cantor's singular moments. *Southwest J. Pure Appl. Math.*, (1):27–29 (electronic), 2000.

[148] H. Prodinger. Combinatorics of geometrically distributed random variables: Lengths of ascending runs. *LATIN2000, Lecture Notes in Computer Science 1776*, pages 473–482, 2000.

[149] G. Louchard and H. Prodinger. Probabilistic analysis of Carlitz compositions. *Discrete Mathematics and Theoretical Computer Science*, 5:71–96, 2002.

[150] H. Prodinger. A q–analogue of a formula of Hernandez obtained by inverting a result of Dilcher. *Australasian Journal of Combinatorics*, 21:271, 2000.

[151] H. Prodinger. Combinatorics of geometrically distributed random variables: New q–tangent and q–secant numbers. *International Journal of Mathematical Sciences*, 24:825–838, 2000.

[152] H. Prodinger. A q–analogue of the path length in binary search trees. *Algorithmica*, 31:433–441, 2001.

[153] A. Panholzer and H. Prodinger. Bijections for non-crossing trees on a circle. *Discrete Mathematics*, 250:181–195, 2002.

[154] H. Prodinger and W. Szpankowski (eds.). Special issue on average case analysis of algorithms. *Algorithmica*, 29, 369 pages; preface 1–2, 2001.

[155] A. Knopfmacher and H. Prodinger. A simple card guessing game revisited. *Electron. J. Combin.*, 8(2):Research Paper 13, 9 pp. (electronic), 2001. In honor of Aviezri Fraenkel on the occasion of his 70th birthday.

[156] H. Prodinger. On the moments of a distribution defined by the Gaussian polynomials. *Journal of Statistical Planning and Inference*, 2000.

[157] H. Prodinger. On the analysis of an algorithm to generate a random cyclic permutation. *Ars Combinatoria*, 2000.

[158] H Prodinger. On binary representations of integers with digits −1, 0, 1. *Integers*, pages A8, 14 pp. (electronic), 2000.

[159] M. E. H. Ismail, H. Prodinger, and D. Stanton. Schur's determinants and partition theorems. *Sém. Lothar. Combin.*, 44:Art. B44a, 10 pp. (electronic), 2000.

[160] P. Grabner and H. Prodinger. Sorting algorithms for broadcast communications: Mathematical analysis. *Theoretical Computer Science*, 289:51–67, 2002.

[161] A. Panholzer and H. Prodinger. Binary search tree recursions with harmonic toll functions. *Journal of computational and applied mathematics*, 142:211–225, 2002.

[162] H. Prodinger. Some applications of the q–Rice formula. *Random Structures and Algorithms*, 19:552–557, 2001.

[163] C. Heuberger and H. Prodinger. On minimal expansions in redundant number systems: Algorithms and quantitative analysis. *Computing*, 66:377–393, 2001.

[164] H. Prodinger. Combinatorics of geometrically distributed random variables: Value and position of large left-to-right maxima. *Discrete Mathematics*, 254:459, 2002.

[165] A. Panholzer and H. Prodinger. Kirkman's hypothesis revisited. *Integers*, 1:A05, 3 pages, 2001.

[166] G. Andrews, A. Knopfmacher, P. Paule, and H. Prodinger. q–Engel series expansions and Slater's identities. *Quaestiones Mathematicae*, 24:403–416, 2001.

[167] H. Prodinger. *Words, Dyck Paths, Trees, and Bijections*, pages 369–379. World Scientific, 2001.

[168] P. Grabner and H. Prodinger. Some identities for Chebyshev polynomials. *Portugaliae Mathematicae*, 2002.

[169] R. Kemp and H. Prodinger (editors). Special issue in algorithmica, mathematical analysis of algorithms. *Algorithmica*, pages 237–457, 2001.

[170] H. Prodinger. On a functional-difference equation of Runyon, Morrison, Carlitz, and Riordan. *Sém. Lothar. Combin.*, 46:Art. B 46a, 4 pp. (electronic), 2001.

[171] H. Prodinger and W. Szpankowski. Optimal versus randomized search of fixed length binary words. *IEEE Transactions on Information Theory*, 48:2614–2621, 2002.

[172] H. Prodinger and T.A.Tshifhumulo. On q–Olivier functions. *Annals of Combinatorics*, 6:81–94, 2002.

[173] M. Drmota and H. Prodinger. The height of q–binary search trees. *Discrete Mathematics and Theoretical Computer Science*, 5:97–108.

[174] H. Prodinger and W. Szpankowski (editors). Special issue in random structures and algorithms, analysis of algorithms. *Random Structures and Algorithms*, pages 149–557, 2001.

[175] A. Panholzer, H. Prodinger, and M. Riedel. Measuring post-quickselect disorder.

[176] G. Louchard and H. Prodinger. Random 0-1 rectangular matrices: a probabilistic analysis. *Publicationes Mathematicæ (Debrecen)*.

[177] H. Prodinger. A note on a paper of G. H. Weiss and M. Dishon. *The Fibonacci Quarterly*.

[178] A. Panholzer and H. Prodinger. Moments of level numbers of leaves in binary trees. *Journal of Statistical Inference*, 101:267–279, 2002.

[179] C. Heuberger and H. Prodinger. Carry propagation in signed digit representations. *European Journal of Combinatorics*, 24:293–320, 2003.

[180] D. Callan and H. Prodinger. An involutory matrix of eigenvectors. *The Fibonacci Quarterly*, 38:105–107, 2003.

[181] E. Deutsch and H. Prodinger. A bijection between directed column-convex polyominoes and ordered trees of height at most four. *Theoretical Computer Science*, 307:319–325, 2003.

[182] G. Louchard and H. Prodinger. Ascending runs of sequences of geometrically distributed random variables: a probabilistic analysis. *Theoretical Computer Science*, 304:59–86, 2003.

[183] P. Grabner, C. Heuberger, and H. Prodinger. Subblock occurrences in signed digit representations. *Glasgow Journal of Mathematics*, 45:427–440, 2003.

[184] Helmut Prodinger. Words, permutations, and representations of numbers. *Lecture Notes in Computer Science (Ed. W. Kuich, G. Rozenberg, A. Salomaa)*, pages 81–99, 2002.

[185] A. Panholzer and H. Prodinger. A generating functions proof of a curious identity. *Integers*, 2:A06, 3 pages, 2002.

[186] A. Panholzer and H. Prodinger. Spanning tree size in random binary search trees. 2002.

[187] H. Prodinger. Digits and beyond. In D. Gardy A Mokkadem B. Chauvin, P. Flajolet, editor, *Mathematics and Computer Science II*, pages 355–377. Birkhaeuser Verlag, 2002.

[188] H. Prodinger and B. Vallee (eds.). Special issue on analysis of algorithms (preface 1–3). *Journal of Algorithms*, 44:1–285, 2002.

[189] F. Hubalek, H. K. Hwang, W. Lew, H. Mahmoud, and H. Prodinger. A multivariate view of random bucket digital search trees. *Journal of Algorithms*, 44, 2002.

[190] F. Bassino and H. Prodinger. (q, δ)–numeration systems with missing digits. *Monatshefte für Mathematik*, 2002.

[191] A. Panholzer, H. Prodinger, and M. Riedel. Permuting in place: analysis of two stopping rules. 2002.

[192] G. Louchard and H. Prodinger. Inversions in permutations: A saddle point analysis. *Journal of integer sequences*, 6:article 3.2.8, 2002.

[193] K. Morris, A. Panholzer, and H. Prodinger. Some parameters in heap ordered trees. *Combinatorics, Probability and Computing*, 2002.

[194] H. Prodinger. Returns to origin for random walks on $\mathbb{Z}$ revisited. 2003.

[195] P. Paule and H. Prodinger. Fountains, histograms, and q–identities. *Discrete Mathematics and Theoretical Computer Science*, 6:101–106, 2003.

[196] K. Driver, H. Prodinger, C. Schneider, and André Weideman. Padé approximations to the logarithm II: Identities, recurrences, and symbolic computation. submitted, 2003.

[197] K. Driver, H. Prodinger, C. Schneider, and André Weideman. Padé approximations to the logarithm III: Alternative methods and additional results. submitted, 2003.

[198] P. Grabner, C. Heuberger, and H. Prodinger. Distribution results for low–weight binary representations for pairs of integers. *Theoretical Computer Science*, 2003.

[199] C. Brennan and H. Prodinger. The pills problem revisited. *Quaestiones Mathematicæ*, 2003.

[200] H. Prodinger. A curious identity proved by Cauchy's integral formula. *Mathematical Gazette*, 2005.

[201] H. Prodinger. The kernel method: a collection of examples. 2003.

[202] P. Grabner, C. Heuberger, H. Prodinger, and J. Thuswaldner. Analysis of linear combination algorithms in cryptography. 2003.

[203] H. Prodinger. Compositions and Patricia tries: no fluctuations in the variance! *SODA*, 2004.

[204] A. Panholzer and H. Prodinger. Analysis of some statistics for increasing tree families. 2003.

[205] M. Archibald, A. Knopfmacher, and H. Prodinger. The number of values in a geometrically distributed sample. 2003.

[206] H. Prodinger. Periodic oscillations in the analysis of algorithms. *Journal of the Iranian Statistical Society (submitted)*, 2003.