

A bibliography on Riordan arrays

R. Sprugnoli

September 23, 2008

Everybody interested in Riordan arrays can send to the e-mail address:

`renzo.sprugnoli@unifi.it`

references to books and papers on that subject. In this way, I'll be able to update periodically this bibliography. Thanks.

References

- [1] M. Aigner. Catalan-like numbers and determinants. *J. of Combinatorial Theory Ser. A*, 87 (1999) 33–51.
- [2] M. Aigner. A characterization of Bell numbers. *Discrete Mathematics*, 205 (1999) 207–210.
- [3] D. Baccherini, D. Merlini, and R. Sprugnoli. Level generating trees and proper Riordan arrays. *Applicable Analysis and Discrete Mathematics*, 2 (2008) 69–91.
- [4] P. Barry. A Catalan transform and related transformations on integer sequences. *J. of Integer Sequences*, 8 (2005) 05.4.5.
- [5] P. Barry. On a family of generalized Pascal triangles defined by exponential Riordan arrays. *J. of Integer Sequences*, 10 (2007) 07.3.5.
- [6] P. Barry. Some observations on the Lah and Laguerre transforms of integer sequences. *J. of Integer Sequences*, 10 (2007) 07.4.6.
- [7] P. Barry. A note on Krawtchouk polynomials and Riordan arrays. *J. of Integer Sequences*, 11 (2008) 08.2.2.
- [8] P. Barry, and P. Fitzpatrick. On a one-parameter family of Riordan arrays and the weight distribution of MDS codes. *J. of Integer Sequences*, 9 (2007) 07.9.8.
- [9] N. T. Cameron, and A. Nkwanta. On some (pseudo) involutions in the Riordan group. *J. of Integer Sequences*, 8 (2005) 05.3.7.
- [10] G.-S. Cheon, and M. E. A. El-Mikkawy. Generalized harmonic numbers with Riordan arrays. *J. of Number Theory*, 128 (2008) 413–425.
- [11] G.-S. Cheon, M. E. A. El-Mikkawy, and H.-G. Seol. New identities for Stirling numbers via Riordan arrays. *J. Korea Soc. Math. Educ. Ser. B Pure Appl. Math*, 13 (2006) 311–318.
- [12] G.-S. Cheon, and H. Kim. Simple proofs of open problems about the structure of involutions in the Riordan group. *Linear Algebra and its Applications*, 428 (2008) 930–940.
- [13] G.-S. Cheon, H. Kim, and L. W. Shapiro. Riordan group involutions. *Linear Algebra and its Applications*, 428 (2008) 941–952.
- [14] W. Y. C. Chen, N. Y. Li, L. W. Shapiro, and S. H. F. Yan. Matrix identities on weighted partial Motzkin paths. *European J. Combinatorics*, 28 (2007) 1196–1207.

- [15] C. Corsani, D. Merlini, and R. Sprugnoli. Left inversion of combinatorial sums. *Discrete Mathematics*, 180 (1998) 107–122.
- [16] J. L. Diaz-Barrero, J. Gibergans-Baguena, and P. G. Popescu. Some identities involving rational sums. *Applicable Analysis and Discrete Mathematics*, 1 (2007) 397–402.
- [17] G. P. Egorychev, and E. V. Zima. Decomposition and group theoretic characterization of pairs of inverse relations of the Riordan type. *Acta Applicandae Mathematicae*, 85 (2005) 93–109.
- [18] S. Getu, and L.W. Shapiro. Lattice paths and Bessel functions. *Congressus Numerantium*, 108 (1995) 161–169.
- [19] T. X. He, L. C. Hsu, and P. J.-S. Shiue. The Sheffer Group and the Riordan Group. *Discrete Applied Mathematics*, 155 (2007) 1895–1909.
- [20] D. S. Hough, and L. W. Shapiro. The noncrossing descent matrix is Riordan. *Congressus Numerantium*, 162 (2003) 83–96.
- [21] I-C. Huang. Inverse relations and Schauder bases. *J. Combin. Theory Ser. A*, 97 (2002) 203–224.
- [22] W. Lang. On polynomials related to derivatives of the generating function of Catalan numbers. *Fibonacci Quarterly*, 40 (2002) 299–313.
- [23] D. Li, and S. Shang. Several computing formulas for combinatorial sums. *Appl. Math. J. Chinese Univ. Ser. B*, 17 (2002) 119–124.
- [24] X. R. Ma. A generalization of the Kummer identity and its application to Fibonacci-Lucas sequences. *Fibonacci Quarterly*, 36 (1998) 339–347.
- [25] X. R. Ma. Inverse chains of the Riordan group and their applications to combinatorial sums (chinese). *J. Math. Res. Exposition*, 19 (1999) 445–451.
- [26] D. Merlini. Proper generating trees and their internal path length. *Discrete Applied Mathematics*, 156 (2008) 627–646.
- [27] D. Merlini, D. G. Rogers, R. Sprugnoli, and M. C. Verri. On some alternative characterizations of Riordan arrays. *Canadian J. Mathematics*, 49 (1997) 301–320.
- [28] D. Merlini, and R. Sprugnoli. A Riordan array proof of a curious identity. *Integers*, 2 (2002) A8.
- [29] D. Merlini, and R. Sprugnoli. Playing with some identities of Andrews. *J. of Integer Sequences*, 10 (2007) 07.9.5.
- [30] D. Merlini, R. Sprugnoli, and M. C. Verri. Algebraic and combinatorial properties of simple, coloured walks. *Trees in Algebra and Programming - LNCS 787*, (1994) 218–233.
- [31] D. Merlini, R. Sprugnoli, and M. C. Verri. A uniform model for the storage utilization of B-tree-like structures. *Information Processing Letters*, 57 (1996) 53–58.
- [32] D. Merlini, R. Sprugnoli, and M. C. Verri. The tennis ball problem. *J. Combinatorial Theory Ser. A*, 99 (2002) 307–344.
- [33] D. Merlini, R. Sprugnoli, and M. C. Verri. Waiting patterns for a printer. *Discrete Applied Mathematics*, 144 (2004) 359–373.
- [34] D. Merlini, R. Sprugnoli, and M. C. Verri. The Akiyama-Tanigawa transformation. *Integers*, 5 (2005) A5.
- [35] D. Merlini, R. Sprugnoli, and M. C. Verri. The Cauchy numbers. *Discrete Mathematics*, 306 (2006) 1906–1920.
- [36] D. Merlini, R. Sprugnoli, and M. C. Verri. Combinatorial inversions and implicit Riordan arrays. *Electronic Notes on Discrete Mathematics - Combinatorics 2006*, (2006) 103–110.

- [37] D. Merlini, F. Uncini, and M. C. Verri. A unified approach to the study of general and palindromic compositions. *Integers*, 4 (2004) A23.
- [38] D. Merlini, and M. C. Verri. Generating trees and proper Riordan arrays. *Discrete Mathematics*, 218 (2000) 167–183.
- [39] E. Munarini. Enumeration of order ideals of a garland. *Ars Combinatorica*, 76 (2005) 185–192.
- [40] A. Nkwanta. A Riordan matrix approach to unifying a selected class of combinatorial arrays. *Congressus Numerantium*, 160 (2003) 33–45.
- [41] A. Nkwanta, and N. Knox. A note on Riordan matrices. *African Americans in Mathematics, II*, (1999) 99–107.
- [42] A. Nkwanta, and L. W. Shapiro. Pell walks and Riordan matrices. *Fibonacci Quarterly*, 43 (2005) 170–180.
- [43] P. Peart, and W.-J. Woan. Generating functions via Hankel and Stieltjes matrices. *J. of Integer Sequences*, 3 (2000) 00.2.1.
- [44] P. Peart, and W.-J. Woan. A divisibility property for a subgroup of Riordan matrices. *Discrete Applied Mathematics*, 98 (2000) 255–263.
- [45] P. Peart, W.-J. Woan, and B. Tankersley. Algebraic and combinatorial interpretations of the Genocchi triangle. *Congressus Numerantium*, 175 (2005) 45–51.
- [46] P. Peart, and L. Woodson. Triple factorization of some Riordan matrices. *Fibonacci Quarterly*, 31 (1993) 121–128.
- [47] D. G. Rogers. Pascal triangles, Catalan numbers and renewal arrays. *Discrete Mathematics*, 22 (1978) 301–310.
- [48] L. W. Shapiro. A survey of the Riordan Group. *Talk at a meeting of the American Mathematical Society*, Richmond, Virginia, 1994.
- [49] L. W. Shapiro. The average is one. *Congressus Numerantium*, 176 (2005) 3–10.
- [50] L. W. Shapiro. Some open questions about random walks, involutions, limiting distributions and generating functions. *Advances in Applied Mathematics*, 27 (2001) 585–596.
- [51] L. W. Shapiro. Catalan trigonometry. *Congressus Numerantium*, 156 (2002) 129–136.
- [52] L. W. Shapiro. Bijections and the Riordan group. *Theoretical Computer Science*, 307 (2003) 403–413.
- [53] L. W. Shapiro, S. Getu, W.-J. Woan, and L. Woodson. The Riordan group. *Discrete Applied Mathematics*, 34 (1991) 229–239.
- [54] R. Sprugnoli. Riordan arrays and combinatorial sums. *Discrete Mathematics*, 132 (1994) 267–290.
- [55] R. Sprugnoli. Riordan arrays and the Abel-Gould identity. *Discrete Mathematics*, 142 (1995) 213–233.
- [56] Y.-D. Sun, and C. Jia. Counting Dyck paths with strictly increasing peak sequences. *J. Math. Res. Exposition*, 27 (2007) 253–263.
- [57] M. Tan, and T. Wang. Lah matrix and its algebraic properties. *Ars Combinatorica*, 70 (2004) 97–108.
- [58] M. C. Wilson. Asymptotics for generalized Riordan arrays. *2005 Int. Conf. on Analysis of Algorithms - Discrete Math. Theor. Comput. Sci. Proc*, (2005) 323–333.
- [59] W.-J. Woan, and D. Hough. Lattice paths and subgroups of Riordan group. *Congressus Numerantium*, 177 (2005) 45–49.
- [60] D. H. Yin. Riordan array / partial monoid. *J. Math. Res. Exposition*, 23 (2003) 253–260.

- [61] D. S. Yin. Riordan groups and three generalized identities. *J. Dalian Univ. Tech.*, 39 (1999) 6–11.
- [62] Q.-W. Zhang, and X.-R. Ma. The ordinary Bailey lemma and Riordan chain. *J. Math. Res. Exposition*, 22 (2002) 401–406.
- [63] X. Zhao, and S. Ding. Sequences related to Riordan arrays. *Fibonacci Quarterly*, 40 (2002) 247–252.
- [64] X. Zhao, S. Ding, and T. Wang. Some summation rules related to the Riordan arrays. *Discrete Mathematics*, 281 (2004) 295–307.
- [65] X. Zhao, and T. Wang. Some identities related to reciprocal functions. *Discrete Mathematics*, 265 (2003) 323–335.
- [66] X. Q. Zhao, Y. F. Zhang and A. W. Liang. A method of forming normal Riordan matrices; (chinese). *J. Luoyang Univ.*, 4 (2001) 4–5.