

Bibliography

- [1] S.S. Agayan, Hadamard matrices and their applications, Lecture notes in mathematics, Vol. 1168, Springer-Verlag, Berlin, 1985.
- [2] R.E.L. Aldred and B.D. McKay, Graceful and harmonious labellings of trees, *Bull. Inst. Combin. Appl.* 23 (1998), 69-72.
- [3] R.E.L. Aldred, J. Širáň and M. Širáň, A note on the number of graceful labellings of paths, *Discrete Math.* 261 (2003), 27-30.
- [4] M.D. Atkinson and J.R. Sack, Generating binary trees at random, *Inform. Process. Lett.* 41 (1) (1992), 21-23.
- [5] J.C. Bermond and D. Sotteau, Graph decompositions and G-design, Proc. 5th British Combinatorics Conference, 1975, *Congressus Numerantium XV* (1976), 53-72.
- [6] J.C. Bermond, Graceful graphs, radio antennae and French windmills, *Graph Theory and Combinatorics*, Pitman, London (1979), 18-37.
- [7] F.R. Bernhart, Catalan, Motzkin, Riordan numbers, *Discrete Math.* 204 (1999), 73-112.
- [8] V. Bhat-Nayak and U. Deshmukh, New families of graceful banana trees, *Proc. Indian Acad. Sci. Math. Sci.* 106 (1996), 201-216.
- [9] C.P. Bonnington and J. Širáň, Bipartite labelling of trees with maximum degree three, *J. Graph Theory* 31 (1999), 7-15.
- [10] L. Brankovic, A. Rosa, and J. Širáň, Labelling of trees with maximum degree three and improved bound, preprint.

- [11] H.J. Broersma and C. Hoede, Another equivalent of the graceful tree conjecture, *Ars Combinatoria* 51 (1999), 183-192.
- [12] M. Burzio and G. Ferrarese, The subdivision graph of a graceful tree is a graceful tree, *Discrete Math.* 181 (1998), 275-281.
- [13] A. Caley, A theorem on trees, *Quart. J. Pure Appl. Math.* 23 (1889), 376-378. [The Collected Mathematical Papers of Arthur Caley, Vol. XIII (Cambridge University Press, 1897), 26-28.]
- [14] D. Callan, A combinatorial derivation of the number of labelled forests, *J. Integer Sequences* Vol. 6 (2003), Article 03.4.7
- [15] W.-C. Chen, H.-I. Lü, and Y.-N. Yeh, Operations of interlaced trees and graceful trees, *Southeast Asian Bulletin of Math.* 21 (1997), 337-348.
- [16] Y.-M. Chen and Y.-Z. Shih, On enumeration of plane forests, preprint.
- [17] Y.-M. Chen, The Chung-Feller Theorem revisited, submitted.
- [18] Y.-M. Chen and Y.-Z. Shih, 2-Caterpillars are graceful, submitted.
- [19] K. L. Chung and W. Feller, On fluctuations in coin-tossing, *Proc. Nat. Acad. Sci. USA* 35 (1949), 605-608.
- [20] R. Craigen, Constructing Hadamard matrices with orthogonal pairs, *Ars Combinatoria* 33 (1992), 57-64.
- [21] R. Craigen, J. Seberry and Xian-Mo Zhang, Product of four Hadamard matrices, *J. Combin. Theory Series A* 59 (1992), 318-320.
- [22] W. de Launey, A product for twelve Hadamard matrices, *Australasian J. of Combin.* 7 (1993), 123-127.
- [23] N. Dershowitz and S. Zaks, Enumerations of ordered trees, *Discrete Math.* 31 (1980), 9-28.
- [24] N. Dershowitz and S. Zaks, The cycle lemma and some applications, *European J. Combinatorics* 11 (1990), 35-40.
- [25] E. Deutsch, Dyck path enumeration, *Discrete Math.* 204 (1999), 167-202.

- [26] J.H. Dinitz and D.R. Stinson, Contemporary Design Theory: A Collection of Surveys, John Wiley and Sons, Inc., 1992.
- [27] R. Donaghey and L.W. Shapiro, Motzkin numbers, *J. Combin. Theory Series A* 23 (1977), 291-301.
- [28] T. Došlić, Morgan trees and Dyck paths, *Croatica Chemica Acta CCACAA* 75 (4) (2002), 881-889.
- [29] S.-P. Eu, On the Quadratic Algebraic Generating Functions and Combinatorial Structures, Ph. D. thesis, Department of Mathematics, National Taiwan Normal University, 2003.
- [30] S.-P. Eu, T.-S. Fu, and Y.-N. Yeh, Refined Chung-Feller Theorems for lattice paths, *J. Combin. Theory Series A* 112 (2005), 143-162.
- [31] S.-P. Eu, S.-C. Liu and Y.-N. Yeh, Taylor expansions for Catalan and Motzkin numbers, *Advances in Applied Math.* 29 (2002), 345-357.
- [32] S.-P. Eu, S.-C. Liu, and Y.-N. Yeh, Dyck paths with peaks avoiding or restricted to a given set, *Studies in Applied Math.* 111 (2003), 453-465.
- [33] S.-P. Eu, S.-C. Liu, and Y.-N. Yeh, Odd or even on plane trees, *Discrete Math.* 281 (2004), 189-196.
- [34] J.A. Gallian, A dynamic survey of graph labelling, *Electronic J. Combinatorics* 5 (2005), #DS6.
- [35] I. Gessel, Counting forests by descents and leaves, *Electronic J. Combinatorics* 3 (2) (1996), #R8.
- [36] S.W. Golomb, How to number a graph, in *Graph Theory and Computing*, R. C. Read, ed., Academic Press, New York (1972), 23-37.
- [37] J. Hadamard, Résolution d'une question relative aux déterminants, *Bull. des Sci. Math.* 17 (1893), 240-246.
- [38] S.M. Hegde and S. Shetty, On graceful trees, *Applied Mathematics E-Notes* 2 (2002), 192-197.

- [39] P. Hrnčiar and A. Haviar, All trees of diameter five are graceful, *Discrete Math.* 233 (2001), 133-150.
- [40] C. Huang, A. Kotzig and A. Rosa, Further results on tree labellings, *Utilitas Math.* 21c (1982), 31-48.
- [41] H. Izbicki, Über Unterbäume eines Baumes, *Monatshefte f. Math.* 74 (1970), 56-62.
- [42] K.M. Koh, D.G. Rogers, and T. Tan, On graceful trees, *Nanta Math.* 10 (1977), 27-31.
- [43] K.M. Koh, D.G. Rogers, and T. Tan, A graceful arboretum: A survey of graceful trees, in *Proceedings of Franco-Southeast Asian Conference*, Singapore, May 1979, **2** 278-287.
- [44] J. Labelle and Y.-N. Yeh, Dyck paths of knight moves, *Discrete Appl. Math.* 24 (1989), 213-221.
- [45] J. Labelle and Y.-N. Yeh, Generalized Dyck paths, *Discrete Math.* 82 (1990), 1-6.
- [46] O. Marrero, Une caractérisation des matrices de Hadamard, *Expositiones Mathematicae* 17 (1999), 283-288.
- [47] D. Mishra and P. Panigrahi, Graceful lobsters obtained by partitioning and component moving of branches of diameter four trees, *Computers and Mathematics with Applications* 50 (2005), 367-380.
- [48] D. Morgan, Gracefully labelled trees from Skolem sequences, *Congressus Numerantium* 142 (2000), 41-48.
- [49] D. Morgan, All lobsters with perfect matchings are graceful, *Electronic Notes in Discrete Math.* 11 (2002), 503-508.
- [50] D. Morgan and R. Rees, Using Skolem and Hooked-Skolem sequences to generate graceful trees, *J. Combin. Math. and Combin. Computing* 44 (2003), 47-63.
- [51] T.V. Narayana, Cyclic permutation of lattice paths and the Chung-Feller Theorem, *Skandinavisk Aktuarietidskrift* (1967), 23-30.

- [52] T.V. Narayana, Lattice path combinatorics with statistical applications, *Mathematical Expositions* No. 23, University of Toronto Press, Toronto, 1979.
- [53] H.K. Ng, Gracefulness of a class of lobsters, *Notices AMS* 7 (1986), 825-05-294.
- [54] A.M. Pastel and H. Raynaud, Numerotation gracieuse des oliviers, *Colloq. Grenoble*, Publications Université de Grenoble (1978), 218-223.
- [55] G. Ringel, Problem 25, in Theory of Graphs and its Applications, *Proceedings of Symposium in Smolenice 1963*, Prague (1964), 162.
- [56] J. Riordan, Forests of labelled trees, *J. Graph Theory* 5 (1968), 90-103.
- [57] J. Riordan, A note on Catalan parentheses, *Amer. Math. Monthly* 80 (1973), 904-906.
- [58] J. Riordan, Forests of label-increasing trees, *J. Graph Theory* 3 (1979), 127-133.
- [59] F.S. Roberts, Applied Combinatorics, Prentice-Hall, Inc., Englewood Cliffs, New Jersey 07632, 1984.
- [60] A. Rosa, On certain valuations of the vertices of a graph, *Theory of Graphs (International Symposium, Rome, July 1966)*, Gordon and Breach, N.Y. and Dunod Paris (1967), 349-355.
- [61] A. Rosa, Labelling snakes, *Ars Combinatoria* 3 (1977), 67-74.
- [62] A. Rosa and J. Širáň, Bipartite labellings of trees and the gracesize, *J. Graph Theory* 19 (1995), 201-215.
- [63] S. Seo, A pairing of the vertices of ordered trees, *Discrete Math.*, 241 (2001), 471-477.
- [64] L.W. Shapiro, A short proof of an identity of Touchard's concerning Catalan numbers, *J. Combin. Theory Series A* 20 (1976), 375-376.
- [65] L.W. Shapiro, Problem 10753, *Amer. Math. Monthly* 106 (1999), 777.
- [66] L.W. Shapiro, The higher you go, the older it gets, *Congressus Numerantium* 138 (1999), 93-96.

- [67] L.W. Shapiro, The higher you go, the older it gets, *Congressus Numerantium* 138 (1999), 93-96.
- [68] L.W. Shapiro, Some open questions about random walks , involutions, limiting distributions, and generating functions, *Advances in Applied Math.* 27 (2001), 585-596.
- [69] Y.-Z. Shih and E.-T. Tan, On J_m -Hadamard matrices, *Expositiones Mathematicae* 23 (2005), 81-88.
- [70] Y.-Z. Shih and E.-T. Tan, On Marrero's J_m -Hadamard matrices, to appear in *Taiwanese J. Math.*.
- [71] Y.-Z. Shih and E.-T. Tan, On Craigen-de Launey's constructions of Hadamard matrices, preprint.
- [72] N.J. Sloane, A Library of Hadamard Matrices,
<http://www.research.att.com/~njas/hadamard/>.
- [73] R.P. Stanley, Enumerative Combinatorics Volume 1, Cambridge University Press, 1986.
- [74] R.P. Stanley, Enumerative Combinatorics Volume 2, Cambridge University Press, 1999.
- [75] D. Stanton and D. White, Constructive Combinatorics, Springer-Verlag New York Inc. 1986.
- [76] R. Stanton and C. Zarnke, Labelling of balanced trees, *Proc. 4th Southeast Conference of Comb., Graph Theory, Computing* (1973), 479-495.
- [77] J.J. Sylvester, Thoughts on inverse orthogonal matrices, simultaneous sign successions, and tessellated pavements in two or more colors, with applications to Newton's Rule, ornamental tile-work, and the theory of numbers, *Phil. Mag.* 34 (1867), 461-475.
- [78] L. Takács, Counting forests, *Discrete Math.* 84 (1990), 323-326.
- [79] J. Touchard, Sur certaines équations fonctionnelles, Proc. Int. Math. Congress, Toronto (1924), Vol. 1, p.465, (1928).

- [80] F. van Bussel, Relaxed graceful labellings of trees, *Electronic J. Combinatorics* 9 (2002), #R4.
- [81] J.H. van Lint and R.M. Wilson, A Course in Combinatorics, Cambridge University Press, 1992.
- [82] J.-G. Wang, D.J. Jin, X.-G. Lu and D. Zhang, The gracefulness of a class of lobster trees, *Mathematical Computer Modelling* 20 (1994), 105-110.
- [83] W. Woan, Uniform partitions of lattice paths and Chung-Feller generalizations, *Amer. Math. Monthly* 108 (2001), 556-559.
- [84] D.B. West, Introduction to Graph Theory, Prentice-Hall, Inc. 1996.
- [85] W.-C. Wu, Graceful labellings of 4-caterpillars, Master Thesis, Department of Mathematical Sciences, National Chengchi University, 2006.
- [86] S.L. Zhao, All trees of diameter four are graceful, *Annals New York Academy of Sciences* (1986), 700-706.