

References

- [1] Guy, Richard K., and Richard J. Nowakowski. "Coin-weighing problems." *The American Mathematical Monthly* 102, no. 2 (1995): 164-167.
- [2] Li, Anping. "On the conjecture at two counterfeit coins." *Discrete Mathematics* 133, no. 1-3 (1994): 301-306.
- [3] Halbeisen, Lorenz, and Norbert Hungerbühler. "The general counterfeit coin problem." *Discrete Mathematics* 147, no. 1-3 (1995): 139-150.
- [4] Ghosh, Joydeb, Papiya Senmajumdar, Srijoni Maitra, Debasis Dhal, and Rajat Kumar Pal. "A generalized algorithm for solving n coins problem." In *Computer Science and Automation Engineering (CSAE), 2011 IEEE International Conference on*, vol. 2, pp. 411-415. IEEE, 2011.
- [5] Ghosh, J., P. Senmajumdar, S. Maitra, D. Dhal, and R. K. Pal. "Yet another algorithm for solving n coins problem." *Assam University Journal of Science & Technology: Physical Sciences and Technology* 8, no. II (2011): 118-125.
- [6] Ghosh, Joydeb, Piyali Datta, Arpan Chakraborty, Ankita Nandy, Lagnashree Dey, Rajat Kumar Pal, and Ranjit Kumar Samanta. "An endeavour to find two unequal false coins." In *Electrical and Computer Engineering (ICECE), 2014 International Conference on*, pp. 333-336. IEEE, 2014.
- [7] Ghosh, Joydeb, Arpan Chakraborty, Piyali Datta, Lagnashree Dey, Ankita Nandy, Rajat Kumar Pal, and Ranjit Kumar Samanta. "The first algorithm for solving two coins counterfeiting with $\omega(\Delta H) = \omega(\Delta L)$." In *Electrical and Computer Engineering (ICECE), 2014 International Conference on*, pp. 337-340. IEEE, 2014.
- [8] Ghosh, Joydeb, Ankita Nandy, Lagnashree Dey, Piyali Datta, Arpan Chakraborty, Rajat Kumar Pal, and Ranjit Kumar Samanta. "An algorithm for identifying two unequal heavier/lighter coins out of n given coins." In *Computer, Communication,*

- Control and Information Technology (C3IT), 2015 Third International Conference on*, pp. 1-6. IEEE, 2015.
- [9] Ghosh, Joydeb, Lagnashree Dey, Ankita Nandy, A. Chakraborty, Piyali Datta, Rajat Kumar Pal, and Ranjit Kumar Samanta. "An advanced approach to solve two counterfeit coins problem." *Proc. Annals of Pure Applied Mathematics* 7, no. 1 (2014): 77-82.
- [10] Tošić, Ratko. "Two counterfeit coins." *Discrete Mathematics* 46, no. 3 (1983): 295-298.
- [11] Manvel, Bennet. "Counterfeit coin problems." *Mathematics Magazine* 50, no. 2 (1977): 90-92.
- [12] Bellman, Richard, and Brian Gluss. "On various versions of the defective coin problem." *Information and Control* 4, no. 2-3 (1961): 118-131.
- [13] Cormen, Thomas H., Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. *Introduction to Algorithms*. PHI Learning Pvt. Ltd., 3rd edition, (2011): 1106-1128.
- [14] Choi, Sung-Soon, and Jeong Han Kim. "Optimal query complexity bounds for finding graphs." *Artificial Intelligence* 174, no. 9-10 (2010): 551-569.
- [15] Choi, Sung-Soon. "Polynomial time optimal query algorithms for finding graphs with arbitrary real weights." In *Conference on Learning Theory*, pp. 797-818. 2013.
- [16] Uehara, Ryuhei, Kensei Tsuchida, and Ingo Wegener. "Identification of partial disjunction, parity, and threshold functions." *Theoretical Computer Science* 230, no. 1-2 (2000): 131-147.
- [17] Du, Dingzhu, Frank K. Hwang, and Frank Hwang. *Combinatorial group testing and its applications*. Vol. 12. World Scientific, 2000.
- [18] Lim, Eldin Wee Chuan. "On Anomaly Identification and the Counterfeit Coin Problem." *arXiv preprint arXiv:0905.0085*(2009).

- [19] <http://www.numericana.com/answer/weighing.htm#counterfeit>.
- [20] <http://www.geeksforgeeks.org/decision-trees-fake-coin-puzzle>.
- [21] Aigner, Martin, and Anping Li. "Searching for counterfeit coins." *Graphs and Combinatorics* 13, no. 1 (1997): 9-20.
- [22] Levitin, Anany, and Maria Levitin. *Algorithmic puzzles*. OUP USA, 2011.
- [23] Aigner, Martin. *Combinatorial search*. BG Teubner, 1988.
- [24] Ghosh, Joydeb, S. K. Ghosh, and Rajat Kumar Pal. "Two new solutions of the eight coins problem." In *Computer, Communication, Control and Information Technology (C3IT), 2009 First International Conference on*, pp. 85-92, 2009.
- [25] Ghosh, J., S. K. Ghosh, and Rajat Kumar Pal. "A Revisit to the Eight Coins Problem." *International Journal of Computing and Information Technology (IICIT)* 2, no. 1 (2010): 1-14.
- [26] Chakraborty, Arpan, Joydeb Ghosh, Piyali Datta, Ankita Nandy, and Rajat Kumar Pal. "Anomaly Detection and Three Anomalous Coins Problem." In *Advanced Computing and Systems for Security*, pp. 303-320. Springer, New Delhi, 2016.
- [27] Alon, Noga, and Dmitry N. Kozlov. "Coins with arbitrary weights." *Journal of Algorithms* 25, no. 1 (1997): 162-176.
- [28] Alon, Noga, and Vãn H. Vũ. "Anti-Hadamard matrices, coin weighing, threshold gates, and indecomposable hypergraphs." *Journal of Combinatorial Theory, Series A* 79, no. 1 (1997): 133-160.
- [29] Alon, Noga, Dmitry N. Kozlov, and Van H. Vu. "The geometry of coin-weighing problems." In *Foundations of Computer Science, 1996. Proceedings., 37th Annual Symposium on*, pp. 524-532. IEEE, 1996.
- [30] Dyson, Freeman J. "1931. The Problem of the Pennies." *The Mathematical Gazette* 30, no. 291 (1946): 231-234.

- [31] Bošnjak, Ivica. "Some new results concerning three counterfeit coins problem." *Discrete Applied Mathematics* 48, no. 1 (1994): 81-85.
- [32] De Bonis, Annalisa. "A predetermined algorithm for detecting a counterfeit coin with a multi-arms balance." *Discrete Applied Mathematics* 86, no. 2-3 (1998): 181-200.
- [33] De Bonis, Annalisa, Luisa Gargano, and Ugo Vaccaro. "Optimal detection of a counterfeit coin with multi-arms balances." *Discrete Applied Mathematics* 61, no. 2 (1995): 121-131.
- [34] Newbery, E. V. *The penny problem*. Vol. 130. Note 2342, *Math. Gaz.*, 37, 1953.
- [35] Schwartz, Benjamin L. "Letter: Truth about false coins." *Math. Mag* 51 (1978): 254.
- [36] Graham, Louis A. *Ingenious mathematical problems and methods*. Vol. 545. Courier Corporation, 1959.
- [37] Schell, E. D. "Problem E651—Weighed and found wanting." *Amer. Math. Monthly* 52 (1945): 42.
- [38] Du, Ding-Zhu, and Frank K. Hwang. "Competitive group testing." *Discrete Applied Mathematics* 45, no. 3 (1993): 221-232.
- [39] Gargano, Luisa, János Körner, and Ugo Vaccaro. "Search problems for two irregular coins with incomplete feedback: the underweight model." *Discrete Applied Mathematics* 36, no. 2 (1992): 191-197.
- [40] Graham, R. L., and N. J. A. Sloane. "Anti-Hadamard matrices." *Linear algebra and its applications* 62 (1984): 113-137.
- [41] Halbeisen, Lorenz, and Norbert Hungerbühler. "The general counterfeit coin problem." *Discrete Mathematics* 147, no. 1-3 (1995): 139-150.

- [42] Hu, Xiao-Dong, P. D. Chen, and Frank K. Hwang. "A new competitive algorithm for the counterfeit coin problem." *Information Processing Letters* 51, no. 4 (1994): 213-218.
- [43] Hu, X. D., and F. K. Hwang. "A competitive algorithm for the counterfeit coin problem." In *Minimax and Applications*, pp. 241-250. Springer, Boston, MA, 1995.
- [44] Kozlov, Dmitry N., and Van H. Vu. "Coins and cones." *journal of combinatorial theory, Series A* 78, no. 1 (1997): 1-14.
- [45] Li, Anping. "Three counterfeit coins problem." *Journal of Combinatorial Theory, Series A* 66, no. 1 (1994): 93-101.
- [46] Linial, Nathan, and Michael Tarsi. "The counterfeit coin problem revisited." *SIAM Journal on Computing* 11, no. 3 (1982): 409-415.
- [47] Manas, G. J., and D. H. Meyer. "On a problem of coin identification." *SIAM Review* 31, no. 1 (1989): 114-117.
- [48] Pyber, László. "How to find many counterfeit coins?" *Graphs and Combinatorics* 2, no. 1 (1986): 173-177.
- [49] Schrijver, Alexander. *Theory of linear and integer programming*. John Wiley & Sons, 1998.
- [50] Wan, Peng-Jun, and Ding-Zhu Du. "A $(\log_2 3 + 12)$ competitive algorithm for the counterfeit coin problem." *Discrete Mathematics* 163, no. 1-3 (1997): 173-200.
- [51] Wan, Peng-Jun, Qifan Yang, and Dean Kelley. "A $(3/2)\log 3$ -competitive algorithm for the counterfeit coin problem." *Theoretical computer science* 181, no. 2 (1997): 347-356.
- [52] <http://www.coinauthentication.co.uk/newsletter10.html>
- [53] <http://coinsguide.reidgold.com/counterfeits.html>
- [54] Chang, Gerard J., and Frank K. Hwang. "A group testing problem." *SIAM Journal on Algebraic Discrete Methods* 1, no. 1 (1980): 21-24.

- [55] Chang, Gerard J., and Frank K. Hwang. "A group testing problem on two disjoint sets." *SIAM Journal on Algebraic Discrete Methods* 2, no. 1 (1981): 35-38.
- [56] Chang, Gerard J., Frank K. Hwang, and Shen Lin. "Group testing with two defectives." *Discrete Applied Mathematics* 4, no. 2 (1982): 97-102.
- [57] Moon, John W., and M. Sobel. "Enumerating a class of nested group testing procedures." *Journal of combinatorial theory, series B* 23, no. 2-3 (1977): 184-188.
- [58] Riccio, Laura, and Charles J. Colbourn. "Sharper bounds in adaptive group testing." *Taiwanese Journal of Mathematics* 4, no. 4 (2000): 669-673.
- [59] Sobel, Milton, and Phyllis A. Groll. "Group testing to eliminate efficiently all defectives in a binomial sample." *Bell Labs Technical Journal* 38, no. 5 (1959): 1179-1252.
- [60] Hwang, F. K. "A method for detecting all defective members in a population by group testing." *Journal of the American Statistical Association* 67, no. 339 (1972): 605-608.
- [61] Li, Chou Hsiung. "A sequential method for screening experimental variables." *Journal of the American Statistical Association* 57, no. 298 (1962): 455-477.
- [62] Dorfman, Robert. "The detection of defective members of large populations." *The Annals of Mathematical Statistics* 14, no. 4 (1943): 436-440.
- [63] Hwang, F. K. "A minimax procedure on group testing problems." *Tamkang J. Math* 2 (1971): 39-44.
- [64] Iwama, Kazuo, Harumichi Nishimura, Rudy Raymond, and Junichi Teruyama. "Quantum counterfeit coin problems." *Theoretical Computer Science* 456 (2012): 51-64.
- [65] Tom, Gail, Barbara Garibaldi, Yvette Zeng, and Julie Pilcher. "Consumer demand for counterfeit goods." *Psychology & Marketing* 15, no. 5 (1998): 405-421.

- [66] Blackstone, Erwin A., Joseph P. Fuhr Jr, and Steve Pociask. "The health and economic effects of counterfeit drugs." *American Health & Drug Benefits* 7, no. 4 (2014): 216.
- [67] Zeinab, Kamal Aldein Mohammed, and Sayed Ali Ahmed Elmustafa. "Internet of Things applications, challenges and related future technologies." *World Scientific News* 2, no. 67 (2017): 126-148.
- [68] Elgendy, Nada, and Ahmed Elragal. "Big data analytics: a literature review paper." In *Industrial Conference on Data Mining*, pp. 214-227. Springer, Cham, 2014.
- [69] Chang, Huilan, Hung-Lin Fu, and Chih-Huai Shih. "Learning a hidden graph." *Optimization Letters* 8, no. 8 (2014): 2341-2348.
- [70] Bouvel, Mathilde, Vladimir Grebinski, and Gregory Kucherov. "Combinatorial search on graphs motivated by bioinformatics applications: A brief survey." In *International Workshop on Graph-Theoretic Concepts in Computer Science*, pp. 16-27. Springer, Berlin, Heidelberg, 2005.
- [71] Horowitz, Ellis, Sartaj Sahni, and Susan Anderson-Freed. *Fundamentals of data structures*. London: Pitman, 1976.