REFERENCES

- [1] M. Albert, M. D. Atkinson, and V. Vatter. Inflations of geometric grid classes: three case studies. *Australas. J. Combin.*, 58:24–47, 2014.
- [2] M. Albert, C. Bean, A. Claesson, B. Gudmundsson, and H. Ulfarsson. Struct, 2016. https://github.com/PermutaTriangle/PermStruct.
- [3] M. Albert and R. Brignall. Enumerating indices of Schubert varieties defined by inclusions. *J. Combin. Theory Ser. A*, 123:154–168, 2014.
- [4] M. Albert, S. Linton, and N. Ruškuc. The insertion encoding of permutations. *Electron. J. Combin.*, 12:Research Paper 47, 31, 2005.
- [5] E. Babson and E. Steingrímsson. Generalized permutation patterns and a classification of the Mahonian statistics. *Sém. Lothar. Combin.*, 44:Art. B44b, 18, 2000.
- [6] F. Bassino, M. Bouvel, A. Pierrot, C. Pivoteau, and D. Rossin. An algorithm computing combinatorial specifications of permutation classes. *Discrete Appl. Math.*, 224:16–44, 2017.
- [7] A. M. Baxter. Refining enumeration schemes to count according to permutation statistics. *Electron. J. Combin.*, 21(2):Paper 2.50, 27, 2014.
- [8] C. Bean. *Finding structure in permutation patterns*. PhD thesis, Reykjavik University, 2018.
- [9] C. Bean, B. Gudmundsson, and H. Ulfarsson. Automatic discovery of structural rules of permutation classes. To appear in Mathematics of Computation, 2018.
- [10] S. C. Billey, M. Konvalinka, and J. P. Swanson. Tableau posets and the fake degrees of coinvariant algebras. *Adv. Math.*, 371:107252, 46, 2020.
- [11] M. Bóna. The permutation classes equinumerous to the smooth class. *Electron. J. Combin.*, 5:Research Paper 31, 12, 1998.
- [12] M. Bousquet-Mélou, A. Claesson, M. Dukes, and S. Kitaev. (2 + 2)-free posets, ascent sequences and pattern avoiding permutations. *J. Combin. Theory Ser. A*, 117(7):884–909, 2010.
- [13] P. Brändén and A. Claesson. Mesh patterns and the expansion of permutation statistics as sums of permutation patterns. *Electron. J. Combin.*, 18(2):Paper 5, 14, 2011.
- [14] M. Bukata, R. Kulwicki, N. Lewandowski, L. Pudwell, J. Roth, and T. Wheeland. Distributions of statistics over pattern-avoiding permutations. *J. Integer Seq.*, 22(2):Art. 19.2.6, 22, 2019.
- [15] A. Claesson, S. Kitaev, and E. Steingrímsson. Decompositions and statistics for beta(1,0)-trees and nonseparable permutations. *Adv. Appl. Math.*, 42:313–328, 2009.
- [16] T. Dokos, T. Dwyer, B. P. Johnson, B. E. Sagan, and K. Selsor. Permutation patterns and statistics. *Discrete Math.*, 312(18):2760–2775, 2012.

- [17] G. Fertin, A. Labarre, I. Rusu, É. Tannier, and S. Vialette. *Combinatorics of genome rearrangements*. Computational Molecular Biology. MIT Press, Cambridge, MA, 2009.
- [18] M. Fukuda and P. Sniady. Partial transpose of random quantum states: Exact formulas and meanders. *Journal of Mathematical Physics*, 54(4), 2013.
- [19] S. Helgason and J. Robb. Identifying combinatorial structures for binary strings and set partitions, 2018.
- [20] I. Hilmarsson, I. Jónsdóttir, S. Sigurðardóttir, L. Vidarsdóttir, and H. Ulfarsson. Wilf-classification of mesh patterns of short length. *Electron. J. Combin.*, 22(4):Paper 4.13, 27, 2015.
- [21] T. Kahle and C. Stump. Counting inversions and descents of random elements in finite Coxeter groups. *Math. Comp.*, 89(321):437–464, 2020.
- [22] D. Knuth. *The art of computer programming. Volume 3.* Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont., 1973. Sorting and searching, Addison-Wesley Series in Computer Science and Information Processing.
- [23] Y. Kodama and L. Williams. KP solitons, total positivity, and cluster algebras. *Proc. Natl. Acad. Sci. USA*, 108(22):8984–8989, 2011.
- [24] R. E. Korf. Depth-first iterative-deepening: An optimal admissible tree search. *Artificial Intelligence*, 27(1):97 109, 1985.
- [25] V. Lakshmibai and B. Sandhya. Criterion for smoothness of Schubert varieties in Sl(n)/B. *Proc. Indian Acad. Sci. Math. Sci.*, 100(1):45–52, 1990.
- [26] I. Le. Wilf classes of pairs of permutations of length 4. *Electron. J. Combin.*, 12:Research Paper 25, 26, 2005.
- [27] H. Magnusson. Sorting operators and their preimages. Master's thesis, Reykjavik University, 2013.
- [28] T. Magnusson. Forced permutation patterns and applications to coincidence classification of mesh patterns and enumeration of permutation classes. Master's thesis, Reykjavik University, 2018.
- [29] J. Pantone. The enumeration of permutations avoiding 3124 and 4312. *Ann. Comb.*, 21(2):293–315, 2017.
- [30] M. Rubey, C. Stump, et al. FindStat The combinatorial statistics database. http://www.FindStat.org. Accessed: 15th July 2020.
- [31] S. Russell and P. Norvig. Artificial intelligence: a modern approach. 2002.
- [32] M. Tannock. Equivalence classes of mesh patterns with a dominating pattern. Master's thesis, Reykjavik University, 2016.
- [33] H. Ulfarsson. Describing West-3-stack-sortable permutations with permutation patterns. *Sém. Lothar. Combin.*, 67:Art. B67d, 20, 2011/12.
- [34] H. Ulfarsson. Bisc, 2016. https://github.com/ulfarsson/bisc.

- [35] H. Ulfarsson and A. Woo. Which Schubert varieties are local complete intersections? *Proc. Lond. Math. Soc.* (3), 107(5):1004–1052, 2013.
- [36] J. West. Generating trees and forbidden subsequences. *Discrete Mathematics*, 157(1-3):363–374, 1996.
- [37] D. Zeilberger. Enumeration schemes and, more importantly, their automatic generation. *Ann. Comb.*, 2(2):185–195, 1998.