Corrections to: Half-Simple Symmetric Venn Diagrams

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Corrections

This note contains corrections to two minor errors in [1].

First, the two figures that appear in Figure 10 [1, page 17] each have one of the quadrangulating edges misplaced: the relevant edge is drawn upwards from left-to-right whereas it should move be drawn upwards from right-to-left. The relevant edge occurs in the first quadrangulated region above the third branching node on the third level (drawn upwards from the bottom level). The branching node has the bitstring label 10010000000; the incorrect edge, immediately above it, was drawn between 11010000000 and 10011100000, which is not possible by the constraints of the algorithm; the corrected edge is drawn between 10011000000 and 11011000000.

Figure 1 of this document contains the corrected figures. The corrected edge is drawn as a thick line in both figures.

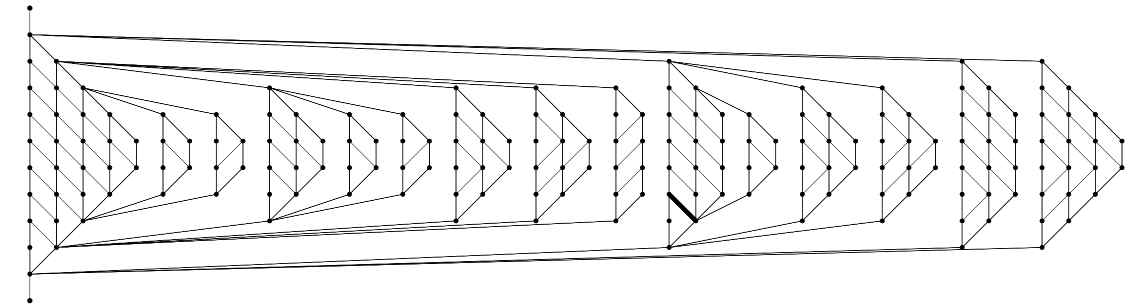
The second error is an arithmetic error in the fourth (large, central) paragraph on page 16. The equation $11 \times 16 = 171$ should, of course, read $11 \times 16 = 176$ and in the following line the number 171 should be 176, changing the equation $1221 + 171 = 1392$ to be $1221 + 176 = 1397$.

Acknowledgements

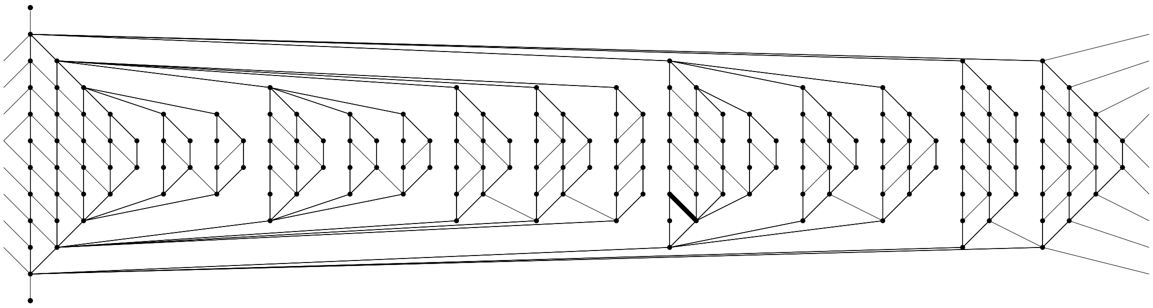
We are grateful to Stan Wagon, who scrutinized [1] thoroughly and spotted the errors.

References

[1] C. E. Killian, F. Ruskey, C. Savage, and M. Weston. Half-simple symmetric Venn diagrams. *The Electronic Journal of Combinatorics*, 11(1), 2004. Article R86 (electronic).



(a) After quadrangulating all faces corresponding to a node in S_{11} and its first child.



(b) After manually adding extra edges, including wrapping edges.

Figure 1: Corrected versions of Figure 10; the corrected edge is drawn thicker.