ERRATUM

Erratum to: Conflict-Free Chromatic Art Gallery Coverage

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The authors wish to acknowledge a mistake in the Related Work Section of the paper "*Conflict-Free Chromatic Art Gallery Coverage*" [1], where we mentioned conflict-free colorings of hypergraphs. In the conflict-free coloring of a hypergraph H, every edge e (a subset of vertices) must have a vertex that is uniquely colored among the vertices in e. For instance, consider the geometric hypergraph induced by axis-aligned rectangles: Its vertices correspond to a finite set of axis-aligned rectangles, and each maximal subset of rectangles with a common intersection forms a hyperedge.

We erroneously wrote that for these hypergraphs, the conflict-free chromatic number has a tight $\Theta(\log n)$ bound, but in fact only an upper bound of $O(\log^2 n)$ (shown by Smorodinsky in [3]), and a lower bound of $\Omega(\log n)$ (given by Pach and Tardos in [2]) is known.

References

 Bärtschi, A., Suri, S.: Conflict-free chromatic art gallery coverage. Algorithmica (2013). doi:10.1007/ s00453-012-9732-5

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