Correction to: Optimal discrete search with technological choice

Joseph B. Kadane¹

Published online: 31 August 2021

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Correction to: Math Meth Oper Res (2015) 81:317–336 <https://doi.org/10.1007/s00186-015-0499-8>

Kadane, J.B. (2015). “Optimal Discrete Search with Technological Choice,” *Mathematical Methods of Operations Research*, 81 (#3), 317–336.

I am indebted to Dr. Jake Clarkson of Lancaster University for the following corrections:

- (1) Theorem 1 requires the assumption that $\alpha > 0$.
- (2) In the statement of Lemma 2, “non-increasing” should be “non-decreasing” and the inequalities stated in the statement should be reversed. Theorem 1 states this material correctly.
- (3) Theorem 3 concerns optimal strategies in the problem of minimizing expected cost. Dr. Clarkson provided me with a two-location, two-technology counter example to (a) in Theorem 3, where the unique optimal search strategy does not maximize equation (30) in Theorem 3 at every stage. One of the locations has $\alpha = 0$ (zero overlook probability). See Section 4 (A Special Case with Two Boxes) of Clarkson et al. (2020) for the aforementioned counter example. In general, Clarkson et al. (2020) studies the two-technology, use-independent problem where the expected cost is minimized.

The original article can be found online at <https://doi.org/10.1007/s00186-015-0499-8>.

✉ Joseph B. Kadane
kadane@stat.cmu.edu

¹ Department of Statistics, Carnegie Mellon University, Pittsburgh, PA 15213, USA

References

Clarkson J, Glazebrook KD, Lin KY (2020) Fast or slow: search in discrete locations with two search modes. *Oper Res* 68(2):552–571

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