AUTHOR'S COMMENT ON: "DEFINING TOPOLOGICAL PROPERTIES VIA INTERACTIVE MAPPING CLASSES"

PAUL BANKSTON

In the last line of the proof of Proposition 2.2 in [1], there is an omission that renders the statement incorrect as it stands. The final sentence in the proof says, "$f^{-1}(y) = \bigcap\{C_U : U \in \mathcal{U}_y\}$ is therefore connected, since it is the intersection of subcontinua of a compactum."

This is plainly false; the word *intersection* should be modified to read *directed intersection*. A better finish to the proof is the following: "$f^{-1}(y) = \bigcap\{C_U : U \in \mathcal{U}_y\}$ is therefore connected, since $\{C_U : U \in \mathcal{U}_y\}$ is a family of subcontinua of X that is directed under reverse inclusion. Indeed, if $U, V \in \mathcal{U}_y$, we may pick $W \in \mathcal{U}_y$ such that $\overline{W} \subseteq U \cap V$. Then $C_W \subseteq f^{-1}[U \cap V] = f^{-1}[U] \cap f^{-1}[V] \subseteq C_U \cap C_V$."

References

[1] P. Bankston, *Defining topological properties via interactive mapping classes*, Top. Proc. **34** (2009), 39–45.

Department of Mathematics, Statistics and Computer Science, Marquette University, Milwaukee, WI 53201-1881, U.S.A.

E-mail address: paulb@mscs.mu.edu

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