

Erratum to: Quotient metrics with applications in convex geometry

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In the original publication of the article, there was a mistake in the proof of Proposition 5.7, because Theorem 5.4 concerning semigroups of bijections was applied, while the semigroup in Proposition 5.7 does not consist of surjections.

Moreover, in Proposition 5.7 the formula for the quotient metric does not have to be satisfied in general (see **B.** below).

A. Theorem 5.4' is included as below:

Theorem 5.4' *If \mathcal{F} is a weakly divisible semigroup of isometric embeddings of a metric space (M, ρ) into itself, the orbits w.r.t. $\stackrel{(2)}{=} \mathcal{F}$ are closed in (M, ρ) , and every orbit has at least one origin, then*

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for every $[x], [y]$,

$$\hat{\rho}([x], [y]) = \min \left\{ \inf \{ \rho(x', v) \mid x' \in [x], v \text{ is an origin of } [y] \}, \right. \\ \left. \inf \{ \rho(u, y') \mid y' \in [y], u \text{ is an origin of } [x] \} \right\}.$$

The proof of Theorem 5.4' is the same as that of Theorem 5.4(a), with the following changes:

- “4.7” in line 1 should be replaced by “4.6”;
- last four lines have to be deleted.

B. In Proposition 5.7 the formula for $\hat{\rho}$ should read as follows:

$$\hat{\rho}_H([X], [Y]) = \min \left\{ \inf_{\beta \geq 0} \rho_H(X_0, Y_0 + \beta A), \inf_{\alpha \geq 0} \rho_H(Y_0, X_0 + \alpha A) \right\}.$$

In the first line of the proof to Proposition 5.7, “Theorem 5.4 and Lemma 5.6” should be replaced by “Theorem 5.1, Theorem 5.4' and Lemma 5.6”.