Erratum to: Necessary optimality conditions for a fractional multiobjective optimization problem

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Dutta et al. [3] have recently published a correction of the well-known result of Dutta and Chandra [2, Theorem 3.5]. Using a counterexample, they proved that Dutta and Chandra’s result is not correct and then provided a true statement of it (see [3, Theorem 2.1]) under the assumption that the contingent cone to the feasible set at the considered point is convex.

As the conclusion of [2, Theorem 3.5] was used in the proof of [1, Theorem 3.4], specifically for transitioning from

$$\sup_{\eta \in \partial^* \psi(\pi)} \langle \eta, d \rangle \geq 0, \quad \text{for all } d \in T(C, \pi)$$

to

$$0 \in \overline{co} (\partial^* \psi(\pi)) + [T(C, \pi)^{-}]$$,

we have to correct our results by adding the missing convexity of the contingent cone $T(C, \pi)$ to the statement of [1, Theorem 3.4] and the subsequent outcomes. This additional condition is crucial for the validity of our results.

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