

## Erratum

# Erratum to “Existence of Solutions for Generalized Vector Quasi-Equilibrium Problems by Scalarization Method with Applications”

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We found a mistake in Example 15 in the published paper after its publication. The corrected version is as follows.

*Example 15.* Let  $X = Y = Z = \mathbb{R}$ ,  $E = \mathbb{R}_+$ , and  $F = [-10, 10] \subset Z$ , and let  $e(x) = 1$ , for all  $x \in E$ , and  $C(x) = \mathbb{R}_+$ , for all  $x \in E$ .

(1) Define

$$G(u) = \begin{cases} [u, u+1], & u \in (0, 10], \\ \{0\}, & u \in [-10, 0]. \end{cases} \quad (17)$$

Evidently,  $G$  is not usc on  $F$ . After simply calculating,

$$\xi_G(x, u) = \begin{cases} u+1, & x \in E, \ 0 < u \leq 10, \\ 0, & x \in E, \ -10 \leq u \leq 0. \end{cases} \quad (18)$$

$\xi_G$  is not usc on  $E \times F$  due to the fact that  $\{(x, u) \in E \times F : \xi(x, u) \geq 1\} = \mathbb{R}_+ \times (0, 10]$  is not closed.

(2) Consider the following mapping:

$$G(u) = \begin{cases} [u, u+1], & u \in [0, 10], \\ \{0\}, & u \in [-10, 0). \end{cases} \quad (19)$$

Obviously,  $G$  is not lsc on  $F$ . Also,  $\xi_G$  fails to be lsc on  $E \times F$ , where

$$\xi_G(x, u) = \begin{cases} u+1, & x \in E, \ 0 \leq u \leq 10, \\ 0, & x \in E, \ -10 \leq u < 0. \end{cases} \quad (20)$$

Furthermore, the following misprints should be noted.

With regard to the conceptions of  $D$ -closeness and  $D$ -bounded, in page 1, the correct text should be:  $A$  is called  $D$ -closed [11] if  $A + cD$  is closed and  $D$ -bounded [11] if for each neighborhood  $U$  of zero in  $Y$ , there exists  $\lambda > 0$  such that  $A \subset \lambda U + D$ .

In page 2, left, line 5, the correct text should be: “Incidentally, every TVS such that any singleton is closed is Hausdorff (see [12]).”

In page 2, right, line -18, the correct text should be: “From now on, unless otherwise specified, let  $X$ ,  $Y$  and  $Z$  be Hausdorff real TVSs and ...”