

CORRECTION TO THE PAPER “ON THE SET OF SOLUTIONS TO A CLASS OF NONCONVEX NONCLOSED DIFFERENTIAL INCLUSIONS”

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The formula at the bottom of p. 288 is not exact and should be replaced by

$$d_Z((z_1, z_2), (z'_1, z'_2)) = \sum_{i=1}^2 d_{Z_i}(z_i, z'_i).$$

The same holds for the last inequality on p. 293, which must be changed as follows:

$$D_{E_1}(\Psi(\xi, u, v), \Psi(\xi, u', v')) \leq M \{ \|u - u'\|_{E_1} + \|v - v'\|_{E_2} \}.$$

Moreover, the hypothesis $L + M < 1$ should be added in Lemma 4.2.

Example 4.1 is not correct and the one below must take its place.

EXAMPLE 4.1. Set, for every $v \in L^1(I)$,

$$\psi(v) = \begin{cases} \frac{1}{4}v & \text{if } \|v\|_{L^1(I)} \leq 1, \\ \frac{1}{4\|v\|_{L^1(I)}}v & \text{otherwise.} \end{cases}$$

A simple computation gives

$$\|\psi(v) - \psi(v')\|_{L^1(I)} \leq 2^{-1}\|v - v'\|_{L^1(I)}, \quad v, v' \in L^1(I).$$

Therefore, the multifunctions $\Phi, \Psi : L^1(I) \rightarrow 2^{L^1(I)}$ defined by $\Phi(u) = L^1(I)$ and $\Psi(v) = \{\psi(v)\}$ for all $u, v \in L^1(I)$ satisfy the assumptions of Lemma 4.1. Nevertheless, each set $\Gamma(u) = \Psi(\Phi(u))$ is not decomposable, because one evidently has $\Gamma(u) = \{w \in L^1(I) : \|w\|_{L^1(I)} \leq 4^{-1}\}$ and balls in $L^1(I)$ do not enjoy such a property.

Finally, the term

$$(\theta + \sigma^{-1}) \max \{ \|u - u'\|_{E_1}, \|v - v'\|_{E_2} \}$$

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on p. 298 should be replaced by

$$(\theta + \sigma^{-1})\{\|u - u'\|_{E_1} + \|v - v'\|_{E_2}\},$$

with σ big enough to have $\theta + 2\sigma^{-1} < 1$.

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