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**Correction to : “Precompact contraction of metric uniformities and the continuity of  $F(t, x)$ ”**

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**Correction to: Precompact Contraction  
of Metric Uniformities and the Continuity of  $F(t, x)$ .**

C. J. HIMMELBERG

The hypotheses of Theorem 2 of the paper mentioned above are incomplete. The correct statement is the following:

**THEOREM.** Let  $T$  be a compact Hausdorff space with Radon measure  $\mu$ ,  $X$  a Polish space, and  $E$  a separable metric space. Let  $F: T \times X \rightarrow E$  be a multifunction such that  $t \rightarrow F(t, x)$  defines a measurable multifunction for each  $x \in X$  and  $x \rightarrow F(t, x)$  defines a continuous multifunction for each  $t \in T$ . Then for each  $\varepsilon > 0$  there exists a closed subset  $T_\varepsilon$  of  $T$  such that  $\mu(T - T_\varepsilon) < \varepsilon$  and  $F|_{T_\varepsilon \times X}$  is lower semicontinuous. If, in addition,  $F$  is assumed to have closed values, then  $F|_{T_\varepsilon \times X}$  has closed graph and is lower semicontinuous. (If  $F$  has compact values, then  $F|_{T_\varepsilon \times X}$  is continuous.)

The only change from Theorem 2 of the original paper [1] is that there  $T$  is assumed to be locally compact. However, the proof requires  $T$  to be compact.

REFERENCE

- [1] C. J. HIMMELBERG, *Precompact contraction of metric uniformities and the continuity of  $F(t, x)$* , Rend. Sem. Mat. Univ. Padova, **50** (1973), 185-188.