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Selections of generalized convex set-valued functions satisfying some inclusions. (English)
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J. Math. Anal. Appl. 474, No. 2, 1104-1115 (2019).

In this note, the author investigates the existence of a unique selection of convex set-valued functions satisfying some generalized set-valued inclusions by means of Radström's cancelation lemma and of a recent result of *M. Piszczek* [Result. Math. 64, No. 1–2, 1–12 (2013; Zbl 1277.39032)], weakening the hypotheses considered in [*C. Park* et al., Appl. Math. Lett. 24, No. 11, 1910–1914 (2011; Zbl 1236.39034)] for achieving the same results. Some applications of set-valued dynamics are provided, too, in order to illustrate the theoretical results of the paper.

Reviewer: Sorin-Mihai Grad (Vienna)

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26E25 Set-valued functions

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convex set-valued functions; inclusion; Radström's cancelation lemma; selection; set-valued dynamics

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