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Fixed points of generalized contractive multi-valued mappings. (English) Zbl 0835.54028
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Summary: In a recent paper *N. Mizoguchi* and *W. Takahashi* [ibid. 141, No. 1, 177-188 (1989; [Zbl 0688.54028](#))] gave a positive answer to the conjecture of S. Reich concerning the existence of fixed points of multi-valued mappings that satisfy a certain contractive condition. In this paper, we provide an alternative and somewhat more straightforward proof for the theorem of Mizoguchi and Takahashi. Also the problems associated with fixed points of weakly contractive multi-valued mappings are studied. Finally, we make a few comments that improve other results from the paper cited above.

MSC:

[54H25](#) Fixed-point and coincidence theorems (topological aspects)
[54C60](#) Set-valued maps in general topology

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