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A stochastic version of Fan's best approximation theorem. (English) Zbl 1057.41024

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Summary: We establish some deterministic and random approximation results with the help of two continuous maps in the context of a metrizable topological vector space. These results generalize some well known results in approximation theory.

MSC:

- [41A65](#) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces) Cited in 2 Documents
- [46A16](#) Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
- [47H10](#) Fixed-point theorems
- [60H25](#) Random operators and equations (aspects of stochastic analysis)

Keywords:

[fixed point](#); [multivalued random operator](#); [quasi-convex function](#); [metrizable topological vector space](#); [Kirzbraun property](#)

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