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**On random approximations and random fixed point theorems for 1-set-contractive random maps**

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**Abstract**

The validity of Fan's best approximation theorem for a continuous 1-set-contractive random map defined on a separable closed ball in a Banach space is established. As applications, some random approximation and random fixed point theorems are derived.

**Author Keywords**

1-set-contractive map; Random approximation; Random fixed point; Random operator

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