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**Equivalents of the variational principle in fuzzy and probabilistic metric spaces.** (English)

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The authors investigate the variational principle in fuzzy metric spaces and prove some equivalents to it. They prove some fixed-point-type theorems for single- and multi-valued mappings. The obtained results are applied in probabilistic metric spaces of Menger type.

Reviewer: Endre Pap (Novi Sad)

**MSC:**

54E70 Probabilistic metric spaces

54A40 Fuzzy topology

49J40 Variational inequalities

54H25 Fixed-point and coincidence theorems (topological aspects)

**Keywords:**

fixed-point theorem; fuzzy metric space; Menger space