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Fixed point theory for cyclic φ -contractions in fuzzy metric spaces. (English) Zbl 1333.54050
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Summary: In this paper, the notion of cyclic φ -contraction in fuzzy metric spaces is introduced and a fixed point theorem for this type of mapping is established. Meantime, an example is provided to illustrate this theorem. The main result shows that a self-mapping on a G-complete fuzzy metric space has a unique fixed point if it satisfies the cyclic φ -contraction. Afterwards, some results in connection with the fixed point are given.

MSC:

54H25 Fixed-point and coincidence theorems (topological aspects)
54A40 Fuzzy topology

Cited in **1** Review
Cited in **4** Documents

Keywords:

cyclic representation; cyclic φ -contraction; fixed point; G-Cauchy sequence; G-complete fuzzy metric space

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