Gabeleh, M.; Moshokoa, S. P.
Study of minimal invariant pairs for relatively nonexpansive mappings with respect to orbits. (English) Zbl 07367145
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Summary: In this article, we survey the existence of best proximity pairs for noncyclic contractions with respect to orbits which are defined on a non-convex and weakly compact pair of subsets of a strictly convex Banach space. We then consider the class of relatively nonexpansive mappings with respect to orbits and present a characterization for proximal normal structure. Finally, the structure of minimal invariant pairs under relatively nonexpansive mappings with respect to orbits will be studied. Our conclusions improve and extend the well-known results in the literature.

MSC:
90C48 Programming in abstract spaces
41A50 Best approximation, Chebyshev systems

Keywords:
proximity; noncyclic contraction; strictly convex Banach space

Full Text: DOI

References:

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