

Existence and convergence for a new multivalued hybrid mapping in $CAT(\kappa)$ spaces

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ABSTRACT.

Most of the studies about hybrid mappings are carried out for single-valued mappings in Hilbert spaces. We define a new class of multivalued mappings in $CAT(k)$ spaces which contains the multivalued generalization of (α, β) - hybrid mappings defined on Hilbert spaces. In this paper, we prove existence and convergence results for a new class of multivalued hybrid mappings on $CAT(\kappa)$ spaces which are more general than Hilbert spaces and $CAT(0)$ spaces.

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