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COINCIDENCES AND FIXED POINTS OF NONSELF HYBRID CONTRACTIONS USING GENERALIZED COMPATIBILITY OF TYPE (N)

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Abstract

The aim of this paper is to introduce the concept of generalized compatibility of type(N), which is a generalization of compatibility of type(N) introduced by us in [18], and to prove that concept of generalized compatibility of type(N) is more general than concept of (IT)-commutativity recently introduced by Singh and Mishra [22]. We thus generalize the results of Singh and Mishra [22], who have indicated many errors in results of [1], [2] and presented corrected versions of their results under weaker conditions. We also claim that the condition of generalized compatibility of type(N) is the minimal condition for the existence of common fixed point of hybrid pair of nonself mappings.

KeyWords : *Coincidence and common fixed points, Hausdorff metric, compatibility, Generalized compatibility of type (N), Metrically convex metric space.*

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