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On the Convergence of implicit Ishikawa Iterations with Errors to a Common Fixed Point of Two Mappings in Convex Metric Spaces [1]

Arif Rafiq and Sundus Zafar

Abstract

Let C be a convex subset of a complete generalized convex metric space X, and S and T be two self mappings on C. In this paper it is shown that if the sequence of modified Ishikawa iterations with errors in the sense of Xu [19] associated with S and T converges, then its limit point is the common fixed point of S and T. This result extends and generalizes the corresponding results of Niampally and Singh [10], Rhoades [12], Hicks and Kubicek [6] and Ciric et al [3].

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