

Article

On Recent Results Concerning F -Contraction in Generalized Metric Spaces

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Abstract: In this manuscript we discuss, consider, generalize, improve and unify several recent results for so-called F -contraction-type mappings in the framework of complete metric spaces. We also introduce (φ, F) -weak contraction and establish the corresponding fixed point result. Using our new approach for the proof that a Picard sequence is a Cauchy in metric space, our obtained results complement and enrich several methods in the existing literature. At the end we give one open question for F -contraction of Ćirić-type mapping.

Keywords: banach principle; F -contractive mapping; metric space; fixed point; (φ, F) -contraction

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