# SOME FIXED POINT RESULTS IN R-METRIC SPACE

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**Abstract.** In functional analysis, R-metric space is recent concept and unknown to some parts of the world. In 2020, Khalehoghli et. al. produced fixed point results on R-metric space relating the concepts of Banach contraction principle and Brouwer fixed point theorem. Later on, some mathematicians worked on R-metric space but the fixed point results using the concepts of Kannan and Chatterjea type mappings have not been shown yet. In this article, some fixed point results on R-metric space have been established based on Kannan and Chatterjea type mappings considering R-continuity and R-preserving property. Along with this, a result for existence and uniqueness of

fixed point in R-metric space has been proved keeping a constraint over an R-continuous and R-preserving map. Additionally, some examples have been developed supporting the findings followed by some consequences.