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REMARKS ON THE PAPER "$\alpha - \psi$-GERAGHTY CONTRACTION TYPE MAPPINGS AND SOME RELATED FIXED POINT RESULTS"

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Abstract: Recently, Erdal Karapinar ([8] Karapinar E., $\alpha - \psi-$Geraghty contraction type mappings and some related fixed point results, Filomat, 28:1 37-48 (2014)) introduced the notion of generalized $\alpha - \psi-$Geraghty contraction type mappings in the setting of a metric space and proved the existence and uniqueness of a fixed point of such mappings. But we observe that the condition (H1) for the uniqueness of the fixed point of such mappings as proposed by Karapinar is not enough. The aim of this paper is to attempt to rectify it by proposing a slightly stronger condition in place of condition (H1).

Keywords and Phrases: Metric space, fixed point, $\alpha-$admissible map, triangular $\alpha-$admissible map, generalized $\alpha - \psi-$ Geraghty contraction type mapping.

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1. Introduction and Preliminaries

The Banach contraction principle is one of the most important and fundamental results in fixed point theory. The study of fixed point problems is indeed a powerful tool in nonlinear analysis and the techniques of fixed point theory have very useful applications in many disciplines. Due to this, several authors have improved, generalized and extended this basic result of Banach by defining new contractive conditions and replacing the metric space by more general abstract spaces. Among