

INTERPOLATIVE REICH-RUS-ĆIRIĆ TYPE CONTRACTION ON PARTIAL FUZZY METRIC SPACE

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Abstract: In this paper, we introduce fuzzy interpolative Reich–Rus–Ćirić type contractions in fuzzy and partial fuzzy metric spaces. We establish existence and uniqueness results for fixed points under suitable interpolative contractive conditions. The obtained results generalize several known fixed point theorems in the literature. Illustrative examples are provided to support the applicability of the main results.

Keywords and Phrases: Fuzzy metric space, interpolative Reich-Rus-Ćirić contraction, partial fuzzy metric space, fixed point.

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1. Introduction

Since the introduction of fuzzy set theory by Zadeh [18], fuzzy metric spaces have become an important framework for studying fixed point problems under