



Communications in Nonlinear Analysis

Publisher

Research Group of Nonlinear Analysis and Applications



Some New Fixed and Strict Fixed Point Results in The Set of Multi-Valued Mappings

Farshid Khojasteh^{a,*}

^aDepartment of Mathematics, Arak Branch, Islamic Azad University, Arak, Iran

Abstract

In this paper, we introduce a new multi valued contraction to generalize the weakly multi valued contractive mappings given by Daffer and Kanako and some consequences studied in this direction. Moreover, we found a necessary and sufficient condition for strict fixed points of mentioned contractions.

Keywords: Strict fixed point, fixed point, Weakly Generalized contraction, Pompeiu-Hausdorff metric, Multi valued mapping.

*Corresponding author

Email address: f-khojaste@iaua-arak.ac.ir (Farshid Khojasteh)

