Some Results for Fuzzy Dominated Maps and Related Applications in Graph Theory, Integral Equations and Functional Equations in Dynamic Programming

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Abstract

This paper is devoted to find out some realization of the concept of b-metric like space. First, we attain a fixed point for two fuzzy mappings satisfying a suitable requirement of contractiveness. Subsequently, we apply such result to graphic contractions. Also, we attain a unique solution for a system of integral equations and lastly we give an application to ensure that there exists a common bounded solution of a suitable functional equation in dynamic programming.

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