

FIXED POINT RESULTS FOR MULTI-VALUED GRAPH CONTRACTIONS ON A SET ENDOWED WITH TWO METRICS*

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Dedicated to Dr. Dan Tiba on the occasion of his 70th anniversary

Abstract

In this paper we will study existence, uniqueness and data dependence of the fixed points of multi-valued operators on a set endowed with two metrics. The case of multi-valued graph contractions is considered. Then, an extension to a more general contraction type condition is also given.

MSC: 47H10, 54H25

keywords: metric space, fixed point, multi-valued graph contraction, data dependence.

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