

Controllability of a Class of Fractional Impulsive Differential Inclusions with non-local conditions

Falguni Acharya*; Jitendra Panchal †; D. N. Chalishajar‡

Abstract

This paper intends to prove the controllability results for the class of impulsive fractional differential inclusions. Under the non-local conditions, the controllability of the system is established by applying multivalued analysis, fractional calculus combined with the Krasnoselskii's multi-valued fixed point theorem and the contraction mapping. However to reveal the contemporary applicative feature of controllability authors have validated the results in the course of illustration.

Key Words: Controllability, Impulsive Fractional Differential Inclusions, Contraction mapping, Fixed Point Theorem.

[For Full Article Click Here](#)