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EXISTENCE AND UNIQUENESS OF SOLUTIONS
FOR NONLINEAR FRACTIONAL DIFFERENTIAL
EQUATIONS WITH NONLOCAL BOUNDARY
CONDITIONS

Abstract

In this study the nonlocal and integral boundary value problems for the system of nonlinear fractional differential equations involving the Caputo fractional derivative are investigated. Theorems on existence and uniqueness the of solution are established under the some sufficient conditions on nonlinear terms. A simple example of applications of the main result of this paper is presented.