



CONTROLLABILITY OF TEMPERED CAPUTO FRACTIONAL DYNAMICAL SYSTEMS

MOHAMMAD AYMAN-MURSALEEN

ABSTRACT. In this article, we explored the controllability of fractional dynamical systems with tempered Caputo fractional derivative (FD). We develop the necessary and sufficient conditions for the solution representation of controllability of linear dynamical system involving tempered Caputo FD by utilizing the Gramian matrix. We use Schauder's fixed point theorem to establish sufficient conditions for the controllability of nonlinear fractional dynamical systems involving tempered Caputo FD. The theoretical results are validated through numerical example obtained using successive approximation techniques.

1. INTRODUCTION AND PRELIMINARIES

Over the past three decades, *fractional calculus* has emerged as an advanced branch of mathematical analysis dealing with differentiation and integration of non-integer orders. This field provides a robust framework for modeling complex systems that exhibit nonlinear dynamics, such as those found in physics, engineering, and economics [5, 13, 28]. For instance, Baleanu et al. [12] developed a fractional model of Caputo-type to study the dynamics of the COVID-19 pandemic and to explore its fundamental behaviors.

In the domain of fractional derivatives (FDs), various types are employed to account for memory effects. Over the past decade, experts in dynamical systems theory have utilized a variety of FDs [31]. The most frequently applied FDs in literature are the Caputo and Riemann-Liouville derivatives, both characterized by a singular kernel. To address this limitation, the Caputo-Fabrizio FD was introduced, which features a nonsingular kernel and operates locally. Later, the Atangana-Baleanu FD was proposed as a novel derivative with both nonsingular and nonlocal properties.

Controllability is a key concept in control theory, signifying the ability to steer a dynamical system from any given initial state to a target final state using an appropriate set of controls. The controllability of nonlinear systems in finite-dimensional spaces has been extensively studied, often through the use of fixed-point theorems [9, 23]. Several researchers [10, 11, 14, 20, 21] have derived controllability results for both linear and nonlinear fractional dynamical systems, using tools such as the Gramian matrix and the rank condition. Recently, Vishnukumar et al. [32] investigated the controllability of fractional dynamical systems with a single delay in the

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