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Adaptive feedback control method for the anti-synchronization of identical and non identical fractional-order systems with the new parameters

Malek Karimian¹

Department of mathematics, University of
Payame Noor, Tehran, Iran

Ramin Abdoli

Technical College, ShAhid Yazdan Panah,
Sanandej, Iran

Abstract

In this paper, the anti-synchronization between two identical and non-identical the fractional-order financial chaotic system (FOFS) with using nonlinear adaptive feedback control technique. Theremore, the Lyapunov stability is proved for the fractional-order financial system. Using the numerical results we analyze the effectiveness of the method using adaptive feedback control technique and consider the anti-synchronization error.

Keywords: “Anti-synchronization, fractional order financial system, adaptive feedback control, Lyapunov stability,”

Introduction

¹ Coresponding Author