

عنوان مقاله:

Finite-time synchronization of fractional-order fuzzy Cohen-Grossberg neural networks with time delay

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خلاصه مقاله:

This paper deals with the issues of the finite-time synchronization (FTS) for a class of fractional-order fuzzy Cohen-Grossberg neural networks (FOFCGNNs) with time delay. Based on the finite-time stability theory, fractional-order Razumikhin theorem and applying fractional-order differential inequalities and other inequality techniques, a few new and effective criteria formulated by testable algebraic inequalities are derived to ensure the FTS for the concerned models via designing a discontinuous control strategy. Finally, two numerical simulations examples are furnished to demonstrate the feasibility and effectiveness of the derived theoretical results.

کلمات کلیدی:

Fuzzy Cohen-Grossberg neural network, fractional-order, finite-time synchronization, fractional-order inequality, fractional-order Razumikhin-type theorem

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