

บทความ **Global exponential stability of Clifford-valued neural networks with time-varying delays and impulsive effects**

ถูกอ้างอิงใน วารสารที่อยู่ในฐานข้อมูลที่ กพอ ยอมรับ 1 ครั้ง (18 January 2023)

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The first citation is for the article "A spectral radius-based global exponential stability for Clifford-valued recurrent neural networks involving time-varying delays and...", published in January 2023, by El Abed Assali. A "View" link is provided below the article title.

The second citation is for the article "A Study of a Prey-Generalist Predator System Considering Hunting Cooperation and Fear Effects Under Interval Uncertainty", published in January 2023, by Bapin Mondal, Susmita Sarkar, and Uttam Ghosh. A "View" link is provided below the article title.

At the bottom of the page, a snippet of text is visible: "... Algorithms based on machine learning are widely used for prediction in various photonics devices today. For this purpose, various stable mathematical algorithms have been adapted such as Recurrent Neural..."

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Navigation: Home > Computational and Applied Mathematics > Article

Published: 18 January 2023

A spectral radius-based global exponential stability for Clifford-valued recurrent neural networks involving time-varying delays and distributed delays

El Abed Assali

Computational and Applied Mathematics 42, Article number: 48 (2023) | [Cite this article](#)

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Abstract

This paper deals with the global exponential stability for a class of Clifford-valued recurrent neural networks with time-varying delays and distributed delays (mixed time delays). The Clifford-valued neural network, as an extension of the real-valued neural network, which includes the familiar complex-valued and the quaternion-valued neural network as special cases, has been an active area of research recently. First, based on the Brouwer's fixed point theorem, the existence of the equilibrium point of Clifford-valued recurrent neural networks is

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