

บทความ Dynamical analysis of a delayed food chain model with additive Allee effect ถูกอ้างอิงใน วารสารที่อยู่ในฐานข้อมูลที่ กพอ ยอมรับ 1 ครั้ง (November 2022)

The screenshot shows a web browser window with the URL <https://www.researchgate.net/profile/Porpattama-Hammachukiattikul/stats/citations/all>. The page displays citation statistics for the user's publications. The first section indicates that the publication "Dynamical analysis of a delayed food chain model with additive Allee effect" has 1 new citation. A snippet of text from a citing article is shown: "... However, they have investigated the linear stability and demonstrated the existence of Hopf-bifurcation. The authors in [26] explored the dynamics of a food chain model with a time delay and an additive Allee effect. Xu and Liao [27] performed a mathematical analysis such as local stability and the appearance of Hopf-bifurcation based on the coexisting equilibrium point for the Holling type-II delayed food-chain model, and concluded that the cost of time delay exhibits chaotic behavior. ...". Below this, the publication "Fear effect on a delayed intraguild predation model with the ratio-dependent functional response" is listed as an article from November 2022, authored by s. Magudeeswaran, Vinoth. S., Sathiyathan Krishnasamy, and Kantapon chaisena. A "View" link is provided. The second section shows that the publication "Strict dissipativity synchronization for delayed static neural networks: An event-triggered scheme" has 3 new citations. The Windows taskbar at the bottom shows the date and time as 10:56 PM on 4/19/2023.

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Dynamical analysis of a delayed food chain model with additive Allee effect

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Fear effect on a delayed intraguild predation model with the ratio-dependent functional response

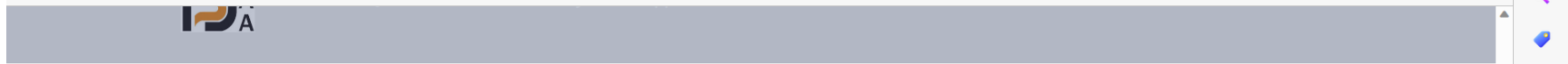
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Strict dissipativity synchronization for delayed static neural networks: An event-triggered scheme



Fear effect on a delayed intraguild predation model with the ratio-dependent functional response

Document Type : Research Paper

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Abstract

In this work, we explore the consequences of fear and time delay on the intraguild predation model. Also, the predator consumes its prey in the form of a ratio-dependent type of interaction. We consider the fear in the prey population and the gestation effect on the predator population. We analyze the existence and the local stability of the proposed model without delay near all non-negative equilibrium points. Furthermore, by taking the fear parameter, the condition to satisfy the existence of Hopf-bifurcation near the coexisting equilibrium is derived. Moreover, we also examine the local stability property and Hopf-bifurcation investigation for the corresponding model in the presence of time delay. Some simulation results were also done to support the primary analytical findings.

Keywords

Fear effect; Hopf-bifurcation; Intraguild predation; Local stability; Time delay



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