Global attractors, extremal stability and periodicity for a delayed population model with survival rate on isolated time scales

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Abstract

In this paper, we investigate the existence of global attractors, extreme stability, periodicity and asymptotically periodicity of solutions of the delayed population model with survival rate on isolated time scales given by $x^{\Delta}(t) = \gamma(t)x(t) + \frac{x(d(t))}{\mu(t)}e^{r(t)\mu(t)\left(1 - \frac{x(d(t))}{\mu(t)}\right)}$, $t \in \mathbb{T}$. We present many examples to illustrate our results, considering different time scales

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