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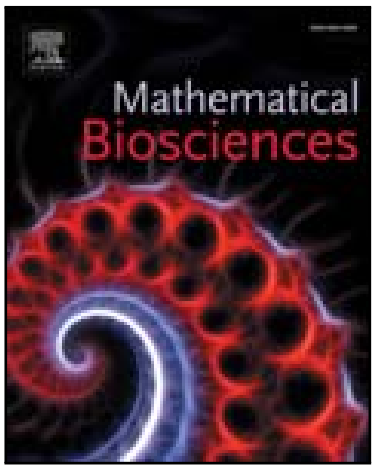

Wave of chaos in a spatial eco-epidemiological system: Generating realistic patterns of patchiness in rabbit-lynx dynamics

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Highlights

- We have designed and studied the extended version of two-species Holling-Tanner predator-prey system.
- Existence of the equilibrium points and their linear and nonlinear stability analysis has been studied.
- The dynamical transitions in the model have been observed through Hopf-bifurcation analysis.
- Chaotic dynamics is depicted using bifurcation analysis and plotting maximum Lyapunov exponents.

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