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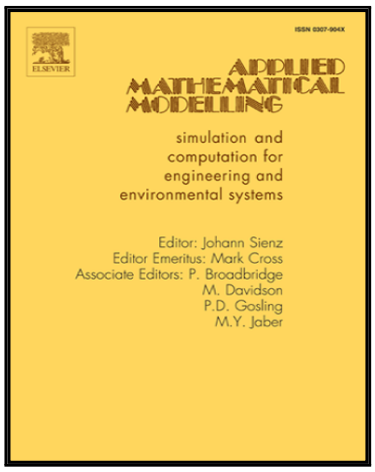

Analysis on existence of bifurcation solutions for a predator-prey model with herd behavior

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Highlights

- A predator-prey model with diffusion and herd behavior is investigated.
- The local and global stability are determined.
- The steady-state bifurcations from both simple and double eigenvalues are studied.
- Numerical simulations illustrate and supplement our theoretical analysis.

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