

Generalized Hopf bifurcation in coupled excitable systems

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Bifurcations of equilibria of two coupled FitzHugh-Nagumo excitable systems are analyzed. It is shown that there are domains for values of coupling and excitability parameters for all three types of Hopf bifurcation. The point of codimension 2 generalized Hopf bifurcation depends on time-scale ratio of the two variables.

References

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