Bifurcations for non autonomous interval maps

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Abstract

In this work we investigate attracting periodic orbits for non autonomous discrete dynamical systems with two maps using a new approach. We study some types of bifurcation in these systems. We show that the pitchfork bifurcation plays an important role in the creation of attracting orbits in families of alternating systems with negative Schwarzian derivative. We study bifurcations with high degeneracy that arise in non autonomous maps of the interval. Finally we study the bifurcations of an alternating system with two quadratic polinomials.

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References

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