Abstract

In this paper the study of rigorous basic dynamical facts on bifurcation and chaos for discrete models in time dynamics and introduce a generalized logistic map and its dynamical behavior with tent and Henon Map has recognized. Different discrete curves have been developed and more general biological logistic curve are studied. Review and compare several such maps and analysis properties of those maps on the applications of bifurcation and chaos. Discuss the concept of chaos and bifurcations in the discrete time dynamical tent maps and generalized logistic growth models as time dynamical attractor.

References

4. Robert M. May, Simple Mathematical Models with very Complicated Dynamics, Nature
Applications of Bifurcation and Chaos on Discrete Time Dynamical System


Index Terms

Computer Science
Information Sciences

Keywords

Chaos, Bifurcations, Logistic Map, Tent Map, Henon Map, Periodic points, constant, chaotic behavior.