ON A MODIFIED ADAPTIVE HOPF–LIKE OSCILLATOR WITH A SUITABLE, USER-FIXED "*INPUT FUNCTION OF COUPLING STRENGTH (IFCS)*"

Angel Golev, Valia Arnaudova

Abstract. *In this article we demonstrate some specialized modules for investigating the dynamics of some adaptive Hopf oscillators, an integral part of a planned much more general Web–based application for scientific computing. We also study a new modified adaptive Hopf–like oscillator with a suitable, user-fixed "input function of coupling strength (IFCS)". Numerical examples, illustrating our results using CAS MATHEMATICA are given.*

Key Words: Adaptive Hopf oscillator, Modified adaptive Hopf–like oscillator with a suitable, User-fixed "*input function of coupling strength (IFCS)*"

Mathematics Subject Classification: 65L07, 34A34

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