

SEMINARIO

Peter Kloeden

Auburn University

Asymptotic behaviour of a neural field lattice model with a Heaviside operator

Abstract: A neural field lattice system motivated by the Amari neural field model is studied. It is formulated as an infinite-dimensional ordinary differential inclusion on a weighted space of infinite sequences. The existence of solutions is proved via a sequence of finite-dimensional approximations and the solutions are shown to generate a nonautonomous set-valued dynamical system which possesses a nonautonomous pullback attractor. Forward omega limit sets for the set-valued dynamical system are also discussed.

Reference: Xiaoying Han and P.E. Kloeden, Asymptotic behaviour of a neural field lattice model with a Heaviside operator, *Physica D* (to appear).

Aula 1.5, Escuela de Ingeniería Industrial - Paseo del Cauce
Martes 19 de Marzo de 2019 (13:00)
Organiza: G.I.R. Sistemas Dinámicos

