Seminar
Systems and Control Group - CIDMA

17 de maio de 2019, 14h30

Departamento de Matemática, Universidade de Aveiro
Auditório Sousa Pinto

Kinematics of complex movement

Carlos Correia Ramos

Departamento de Matemática, Centro de Investigação em Matemática e Aplicações,
Universidade de Évora
ccr@uevora.pt

Abstract

We present a discrete dynamical system which is used to produce and classify a variety of types of movements in arbitrary dimensions. The dynamical system is deterministic and is defined by a family of bimodal interval maps dependent on two real parameters, up to scaling. The characterization of the movements is based on the topological classification of the dynamical system using techniques from symbolic dynamics. Applications to animal movement are discussed.

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