

Einladung zum Vortrag

von Herrn Prof. Dr. Sigurdur Hafstein (University of Iceland, Reykjavik) zum Thema

The CPA method for computing Lyapunov functions

am Donnerstag, 13.07.2017, um 11:15 Uhr, in Raum (IM) HS 11

Abstract

The CPA method (Continuous and Piecewise Affine) for computing Lyapunov functions, originally developed for nonlinear autonomous continuous-time systems given by ordinary differential equations, has been adapted to various other settings.

We discuss its basics and its extensions to differential inclusions, discrete-time systems, finite-time systems, input to state stability, control systems, and some ideas of how to extend it to estimate the topological entropy of a dynamical system.