



Recurrence Plots of time series for Complex Systems

About

- Centralized development project **Ministry of Education**, 7th program for support of activities
- Title: **Laboratory of technical and economical decision**

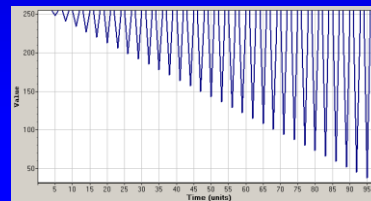
Key features

Qualitative Analysis of time series of complex systems using Recurrence Plots

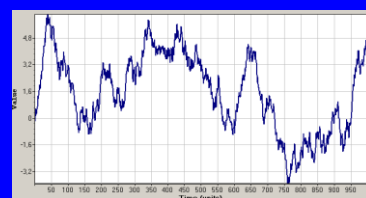
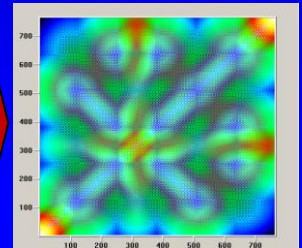
Recurrence Plots

Recurrence plots is a graphic method that helps understand the behaviour of complex systems. According to the kind of pattern shown by the data, it can be determined if the system is deterministic, chaotic or random. The structures in the pattern reveal other information that cannot be extract from a simple chart

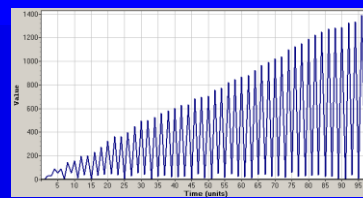
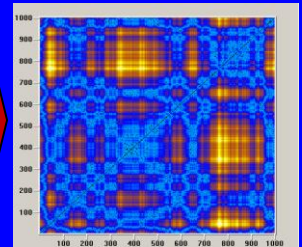
Screenshots



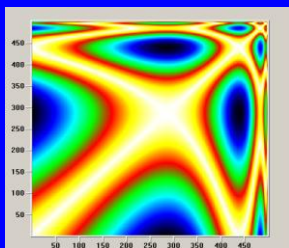
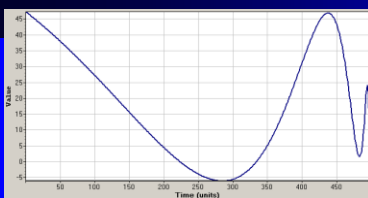
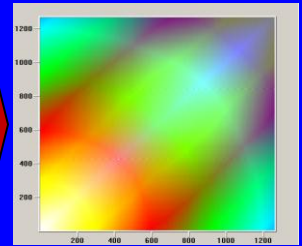
Spectrum



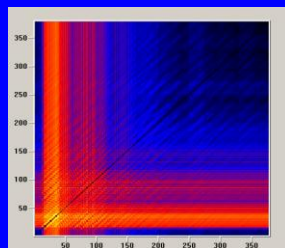
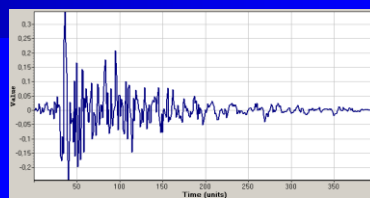
Brownian Motion



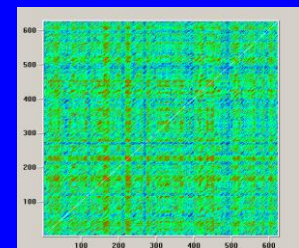
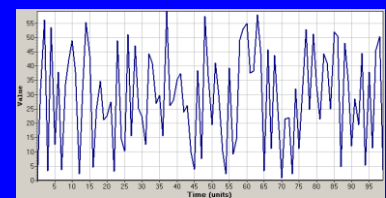
Random behaviour



Logaritm -Coseno Funtion



Earthquake



Productivity of a Construction task

