

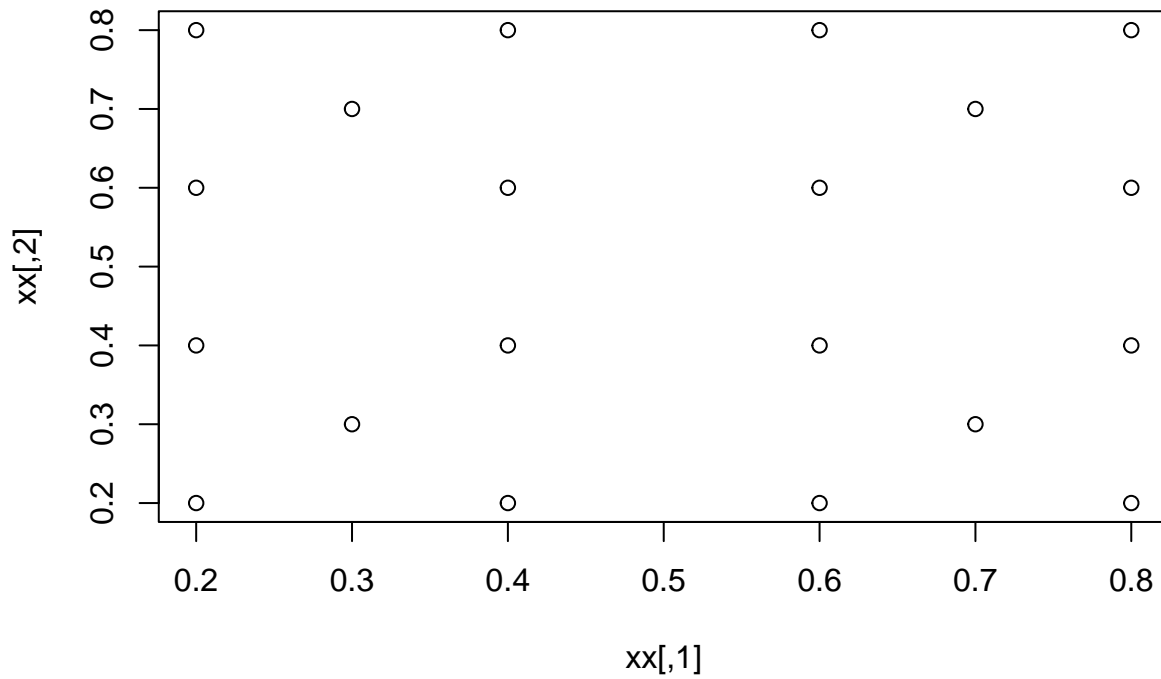
Tessellation README

2023-01-23

Abrupt-Abrupt Simulate Data

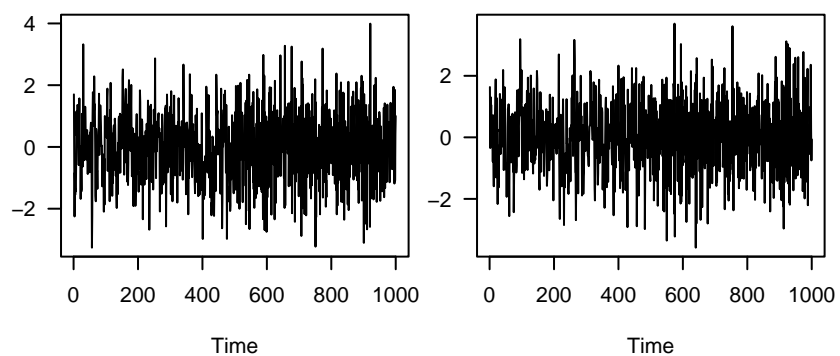
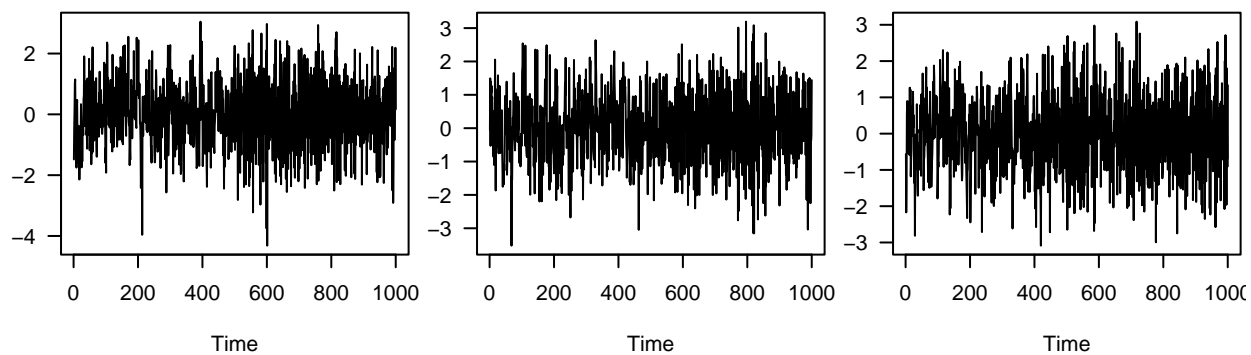
The simulated twenty abrupt-abrupt time series begins with creating a matrix (20×2). Each row in the matrix will be used to determine the ϕ values for the simulated time series. The plot below shows this matrix. This matrix is used as a “Lookup Table” for the parameters in generating these time series.

'Look-Up Table Plot'



The following explains how the data for the abrupt-abrupt simulated data is generated. The first set of time series below were created by using an AR(1) model with $\phi = 0.3$ for the first 500 time points and then combined with an AR(1) model with $\phi = -0.5$ for the last 500 time points.

AR(1), $\phi = 0.3$ and $\phi = -0.5$



AR(1), $\phi = -0.9$ and $\phi = 0.7$

