Computational Methods Problem Set 5

Giao Dang March 2023

Part 1 Discretization of an AR(1) using Tauchen (1986) and Rouwenhorst (1995).

	Data	Tauchen	Tauchen	Rouwenhorst	Rouwenhorst
		N = 5	N = 10	N = 5	N = 10
mean	0.213	-0.169	-0.038	0.149	0.085
var	20.97	13.744	12.169	21.05	20.617
skew	0.027	0.06	0.031	-0.007	0.019
kurt	-0.071	-0.95	-0.953	-0.523	-0.344
1st order autocorr	0.9	0.835	0.841	0.898	0.899
2nd order autocorr	0.809	0.702	0.712	0.807	0.806
3rd order autocorr	0.726	0.599	0.602	0.726	0.723
4th order autocorr	0.654	0.507	0.511	0.653	0.649