

Self Organising Systems

Homework 3

Graph 1 – 9 Nodes

Optimal Solution	$\alpha = 2.0, \beta = 5.0, \rho = 1$	$\alpha = 2.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$	$\alpha = 1.0, \beta = 5.0, \rho = 1$	$\alpha = 1.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$
22	22	22	22	22	22	22	22	22

Graph 2 – 10 Nodes

Optimal Solution	$\alpha = 2.0, \beta = 5.0, \rho = 1$	$\alpha = 2.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$	$\alpha = 1.0, \beta = 5.0, \rho = 1$	$\alpha = 1.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$
23	23	25	25	25	23	23	25	25

Graph 3 – 11 Nodes

Optimal Solution	$\alpha = 2.0, \beta = 5.0, \rho = 1$	$\alpha = 2.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$	$\alpha = 1.0, \beta = 5.0, \rho = 1$	$\alpha = 1.0, \beta = 5.0, \rho = 0.5$	$\alpha = 2.0, \beta = 10, \rho = 1$	$\alpha = 2.0, \beta = 10, \rho = 0.5$
19	21	21	21	21	21	21	24	21

	Graph 1	Graph 2	Graph 3
Optimal Solution	22	23	19
Parameters	Any	($\alpha = 2.0, \beta = 5.0, \rho = 1$), ($\alpha = 1.0, \beta = 5.0, \rho = 1$), ($\alpha = 1.0, \beta = 5.0, \rho = 0.5$)	($\alpha = 2.0, \beta = 5.0, \rho = 1$), ($\alpha = 2.0, \beta = 5.0, \rho = 0.5$), ($\alpha = 2.0, \beta = 10, \rho = 1$), ($\alpha = 2.0, \beta = 10, \rho = 0.5$), ($\alpha = 1.0, \beta = 5.0, \rho = 1$), ($\alpha = 1.0, \beta = 5.0, \rho = 0.5$), ($\alpha = 2.0, \beta = 10, \rho = 0.5$)
Best Solution	22	23	21

