Self Organising Systems

Homework 3

Graph 1 – 9 Nodes

Optimal	α =2.0,	α =2.0,	α =2.0,	α =2.0,	α =1.0,	α =1.0,	α =2.0,	α =2.0,
Solution	β=5.0, ρ=1	β=5.0,	β=10, ρ=1	β=10,	β=5.0, ρ=1	β=5.0,	β=10, ρ=1	β=10,
		ρ=0.5		ρ=0.5		ρ=0.5		ρ=0.5
22	22	22	22	22	22	22	22	22

Graph 2 – 10 Nodes

Optimal	α =2.0,	$\alpha = 2.0$,	α =2.0,	α =2.0,	α =1.0,	$\alpha = 1.0$,	α =2.0,	α =2.0,
Solution	β =5.0, ρ =1	β=5.0,	β=10, ρ=1	β=10,	β=5.0, ρ=1	β=5.0,	β=10, ρ=1	β=10,
		ρ=0.5		ρ=0.5		ρ=0.5		ρ=0.5
23	23	25	25	25	23	23	25	25

Graph 3 – 11 Nodes

Optimal	α =2.0,	α =2.0,	α =2.0,	α =2.0,	α =1.0,	α =1.0,	α =2.0,	α =2.0,
Solution	β=5.0, ρ=1	β=5.0,	β=10, ρ=1	β=10,	β=5.0, ρ=1	β=5.0,	β=10, ρ=1	β=10,
		ρ=0.5		ρ=0.5		ρ=0.5		ρ=0.5
19	21	21	21	21	21	21	24	21

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