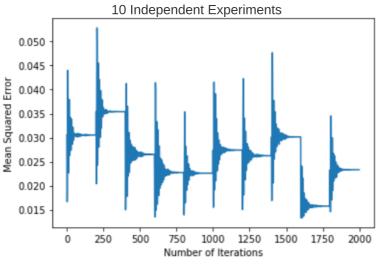
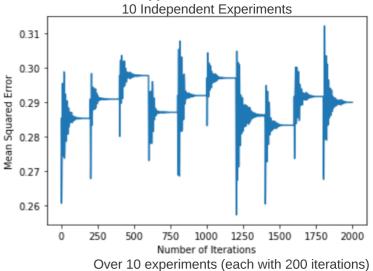
XOR Function Approximation with Sigmoid Activation



Over 10 experiments (each with 200 iterations)

XOR Function Approximation with TanH Activation



XOR function approximation:

PSO parameters	Sigmoid activation function	Hyperbolic Tangent activation
Swarm size	100	100
Informants	6	6
Epsilon	0.2	0.2
Alpha range	0.9	0.89
Position range	-0.1 to 0.1	-0.01 to 0.01
Velocity range	0.05 to 0.15	0.05 to 0.15
Cognitive component	1.8	1
Social component	3.2	3
Input Layer nodes	2	2
Hidden Layer nodes	20	5
Least MSE (approx)	0.015	0.28

Figure 7