Gradient descent							Random hill climbing						
Data size = 30			Data size = 80				Data size = 30			Data size = 80			
Learning rate	Train accuracy	Test accuracy	Learning rate	Train accuracy	Test accuracy		Learning rate	Train accuracy	Test accuracy	Learning rate	Train accuracy	Test accuracy	
0.010	0.983	0.643	0.0005	0.555	0.423		0.05	0.54	0.3	0.05	0.451	0.354	
0.015	0.990	0.687	0.0010	0.779	0.628		0.1	0.92	0.527	0.1	0.825	0.6525	
0.020	0.983	0.703	0.0050	0.984	0.808		0.15	1	0.63	0.15	0.9575	0.77125	
0.025	0.960	0.700	0.0100	0.955	0.795		0.2	1	0.657	0.2	0.99375	0.785	
0.030	0.927	0.673	0.0150	0.856	0.748		0.25	1	0.737	0.25	1	0.78375	
							0.3	1	0.673	0.3	1	0.80125	
							0.35	1	0.697	0.35	1	0.775	
Simulated annealing							Genetic algorithm						
Data size = 30			Data size = 80			·	Data size = 30			Data size = 80			
Learning rate	Train accuracy	Test accuracy	Learning rate	Train accuracy	Test accuracy		(Popu, mutP)	Train accuracy	Test accuracy	(Popu, mutP)	Train accuracy	Test accuracy	
0.05	0.747	0.37	0.050	0.655	0.480		(20, 0.5)	0.2	0.13	(20, 0.5)	0.204	0.138	
0.1	1	0.63	0.100	0.961	0.751		(50, 0.1)	0.225	0.172	(50, 0.1)	0.231	0.174	
0.15	1	0.717	0.150	0.997	0.832		(100, 0.05)	0.23	0.163	(100, 0.05)	0.235	0.171	
0.2	1	0.717	0.200	1.000	0.840		(200, 0.1)	0.267	0.23	(200, 0.1)	0.268	0.240	
		0.7 17	0.200										
0.25	1	0.727	0.250	1.000	0.840		(1000, 0.1)	0.291	0.284	(1000, 0.1)	0.295	0.289	
0.25 0.3	1 1			1.000 1.000	0.840 0.840		(1000, 0.1)	0.291	0.284	(1000, 0.1)	0.295	0.289	