1 Tables

Table 1: Training of the linear classifier until convergence for 10 values of alpha between 0.01 and 0.001. 30 first samples as training set, 20 last samples as testing set, and all four features included. [Opt] is the optimal alpha value, and [Subopt] is the least optimal.

Alpha value	Iterations	MSE testing	Error rate	Error rate
	until conver-	set	training set	testing set
	gence			
0.01	1426	0.0709	0.0333	0.0333
0.009 [Opt]	852	0.0725	0.0333	0.0333
0.008	642	0.0742	0.0333	0.05
0.007	695	0.0746	0.0333	0.05
0.006	748	0.0751	0.0333	0.05
0.005	811	0.0757	0.0333	0.05
0.004	893	0.0765	0.0333	0.05
0.003	1005	0.0777	0.0222	0.05
0.002	1170	0.0799	0.0222	0.05
0.001 [Subopt]	1429	0.0852	0.0556	0.05

Table 2: Training of the linear classifier until convergence for 10 values of alpha between 0.01 and 0.001. 30 last samples as training set, 20 first samples as testing set, and all four features included. [Opt] is the optimal alpha value, and [Subopt] is the least optimal.

Alpha value	Iterations	MSE testing	Error rate	Error rate
	until conver-	set	training set	testing set
	gence			
0.01 [Opt]	2127	0.0647	0.0556	0.0
0.009	1229	0.0651	0.0556	0.0167
0.008	799	0.0666	0.0556	0.0167
0.007	773	0.0675	0.0556	0.0167
0.006	839	0.0679	0.0556	0.0167
0.005	917	0.0685	0.0556	0.0167
0.004	1017	0.0693	0.0556	0.0167
0.003	1153	0.0705	0.0444	0.0167
0.002	1352	0.0727	0.0556	0.0167
0.001 [Subopt]	1657	0.0783	0.0667	0.0333

Table 3: Training of the linear classifier untill convergence for 10 values of alpha between 0.01 and 0.001. 30 first samples as training set, 20 last samples as testing set, and all features included except speal width. [Opt] is the optimal alpha value, and [Subopt] is the least optimal.

Alpha value	Iterations	MSE testing	Error rate	Error rate
	until conver-	set	training set	testing set
	gence			
0.01	No conver-	0.0696	0.0333	0.05
	gence			
0.009	1723	0.0728	0.0333	0.05
0.008 [Opt]	904	0.0774	0.0333	0.0333
0.007	938	0.0781	0.0333	0.0333
0.006	973	0.0789	0.0333	0.0333
0.005	1013	0.0801	0.0333	0.05
0.004	1059	0.0816	0.0333	0.05
0.003	1112	0.0837	0.0222	0.05
0.002	1178	0.0871	0.0556	0.05
0.001 [Subopt]	1270	0.0939	0.1	0.0667

Table 4: Training of the linear classifier until convergence for 10 values of alpha between 0.01 and 0.001. 30 first samples as training set, 20 last samples as testing set, and just petal length and width included. [Opt] is the optimal alpha value, and [Subopt] is the least optimal.

Alpha value	Iterations	MSE testing	Error rate	Error rate
	until conver-	set	training set	testing set
	gence			
0.01 [Opt]	1075	0.0838	0.0667	0.0667
0.009	1114	0.0844	0.0667	0.0667
0.008	1158	0.0852	0.1111	0.0833
0.007	1208	0.0861	0.1111	0.0833
0.006	1265	0.0873	0.1333	0.0833
0.005	1333	0.0887	0.1333	0.0833
0.004	1413	0.0908	0.1333	0.1
0.003	1512	0.0937	0.1556	0.1
0.002	1646	0.0986	0.1667	0.0833
0.001 [Subopt]	1899	0.1086	0.2333	0.2

Table 5: Training of the linear classifier until convergence for 10 values of alpha between 0.01 and 0.001. 30 first samples as training set, 20 last samples as testing set, and just petal width included. [Opt] is the optimal alpha value, and [Subopt] is the least optimal.

Alpha value	Iterations	MSE testing	Error rate	Error rate
	until conver-	set	training set	testing set
	gence			
0.01 [Opt]	866	0.0948	0.1222	0.0833
0.009	898	0.0954	0.1222	0.0833
0.008	935	0.096	0.1222	0.0833
0.007	977	0.0969	0.1222	0.0833
0.006	1026	0.0979	0.1222	0.0833
0.005	1086	0.0992	0.1222	0.0833
0.004	1161	0.1009	0.1889	0.0833
0.003	1262	0.1035	0.1889	0.0833
0.002	1415	0.1076	0.1889	0.0833
0.001 [Subopt]	1729	0.1162	0.2667	0.2667